Refine Search

Search Results -

Terms	Documents
702/3	561

Database:

US Pre-Grant Publication Full-Text Database
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Derwent World Patents Index
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Search:

[Refine Search]

[Recall Text ◆] [Clear] [Interrupt]

Search History

DATE: Thursday, September 27, 2007   Purge Queries   Printable Copy   Create Case

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L20	(geocoded or geocod$ or geo-coded) near3 (database or data with base)	187	L20
L19	L18 and (database or data with base)	18	L19
L18	L17 and (centroid or geocenter or geo-center)	41	L18
L17	(map near radials or map with radials or map adj radials)	1018	L17
L16	709/217	11467	L16
L15	709/207	2315	L15
L14	709.clas.	57855	L14
L13	701/208	3007	L13
L12	701/207	3416	L12
L11	701.clas.	42615	L11
L10	705/62	262	L10
L9	705/10	3863	L9
L8	705.clas.	54015	L8
L7	707.clas.	61533	L7
L6	707/104.1	9166	L6
L5	707/10	15701	L5
L4	707/7	2379	L4
L3	707/6	4590	L3
L2	707/5	5361	L2
L1	707/3	11326	L1

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Freeform Search

Database:
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Derwent World Patents Index
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Term:

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Generate: ○ Hit List ◉ Hit Count ○ Side by Side ○ Image

[Search] [Clear] [Interrupt]

Search History

DATE: Thursday, September 27, 2007   **Purge Queries**   **Printable Copy**   **Create Case**

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L45	(5445524 | 5684940 | 5669061 | 4809201 | 5550743 | 5533107 | 4675823 | 5506897)![PN]	8	L45
L44	("5796634")[PN]	1	L44
L43	("5796634")[URPN]	25	L43
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	DB=USPT; PLUR=YES; OP=OR		
L41	(5007098 | 4490848 | 3636513 | 5093869 | 4783828 | 4499598 | 4974077)![PN]	7	L41
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L39	("5265173")[URPN]	48	L39
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L37	("5285391")[URPN]	65	L37
L36	(4570227 | 4954959 | 4744033 | 4989151 | 4984168 | 4761742 | 4760531 | 5168452 | 4924402 | 5084822 | 4675676)![PN]	11	L36
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| L23 | ("5533107"\| "6539080"\| "6101496"\| "5878126")[PN] | 4 | L23 |

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L21	L20 and (anchor near4 point or anchor with point or anchor adj point or star)	28	L21
L20	(geocoded or geocod$ or geo-coded) near3 (database or data with base)	187	L20
L19	L18 and (database or data with base)	18	L19

L18	L17 and (centroid or geocenter or geo-center)	41	L18
L17	(map near radials or map with radials or map adj radials)	1018	L17
L16	709/217	11467	L16
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L10	705/62	262	L10
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L6	707/104.1	9166	L6
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L3	707/6	4590	L3
L2	707/5	5361	L2
L1	707/3	11326	L1

END OF SEARCH HISTORY

Inventor search/patents
09/439550

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S2	3	IDPAT (sorted in duplicate/non-duplicate order)
S3	2	IDPAT (primary/non-duplicate records only)

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[File 350] **Derwent WPIX** 1963-2007/UD=200736

File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit http://www.dialog.com/dwpi/.

[File 347] **JAPIO** Dec 1976-2006/Dec(Updated 070403)

[File 348] **EUROPEAN PATENTS** 1978-2007/ 200723

File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070607UT=20070531

File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

3/5/1 (Item 1 from file: 350) **Links**
Derwent WPIX

0010839132 *Drawing available*
WPI Acc no: 2001-457134/200149
XRPX Acc No: N2001-338822
Method for creating single geo coded data layer by converting centroid related data to linen by adding or subtracting distance at preset direction from centroid derives endpoint from centroid defining line
Patent Assignee: ETAK INC (ETAK-N)
Inventor: **GRASTEIT C T**

Patent Family (2 patents, 90 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001035192	A2	20010517	WO 2000US42055	A	20001109	200149	B
AU 200129244	A	20010606	AU 200129244	A	20001109	200152	E

Priority Applications (no., kind, date): US 1999439550 A 19991112

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes

WO 2001035192	A2	EN	40	19		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200129244	A	EN			Based on OPI patent	WO 2001035192

Alerting Abstract WO A2

NOVELTY - The method includes building a database, and loading data items having known and unknown locations into the database. It location codes each of the data items having known locations and associated each of the items having unknown locations with a line representing the unknown location.

USE - As a method for creating a single geocoded data layer by converting centroid related data to a line by adding or subtracting a distance at a predetermined direction from the centroid to derive an endpoint from the centroid defining the line.

ADVANTAGE - Provides a display that may be in the form of a radial, a radial with notches, representing additional matches, colors or other shapes, etc.

DESCRIPTION OF DRAWINGS - The drawing shows a display from a database geocoded so that unconfirmed addresses are placed on a centroid based radial encoded line in the database.

1-40 the centroid

600,610,520 and 640 the radials

Title Terms /Index Terms/Additional Words: METHOD; SINGLE; GEO; CODE; DATA; LAYER; CONVERT; CENTROID; RELATED; LINEN; ADD; SUBTRACT; DISTANCE; PRESET; DIRECTION; DERIVATIVE; DEFINE; LINE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F	.		Main		"Version 7"

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-C04A; T01-D02; T01-E02A; T01-F01B; T01-H07C5E; T01-J05B2; T01-J05B3; T01-J05B4P; T01-J12B

3/5/2 (Item 2 from file: 349) **Links**

PCT FULLTEXT

00801683

VIRTUAL STREET ADDRESSING RADIUS
RAYON D'ADRESSAGE DE RUES VIRTUEL

Patent Applicant/Patent Assignee:

- **ETAK INC**; 1605 Adams Drive, Menlo Park, CA 94025
  US; US(Residence); US(Nationality)

Legal Representative:

- **MAGEN Burt(agent)**
  Fliesler, Dubb, Meyer & Lovejoy LLP, Suite 400, Four Embarcadero Center, San Francisco, CA 94111-4156;
  US;

	Country	Number	Kind	Date
Patent	WO	200135192	A2-A3	20010517
Application	WO	2000US42055		20001109
Priorities	US	99439550		19991112

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/30	Main
G01C-021/00	
G06T-011/60	

Publication Language: English
Filing Language: English
Fulltext word count: 7279

English Abstract:

A single geocoded data layer is created by converting centroid related data to a line (600, 610, 620, 630) by adding or subtracting a distance at a predetermined direction from the centroid (140) to derive an endpoint from the

centroid (140) defining the line (taking the form of a radial (610) extending from the centroid (140). The source of the centroid (140) related data is utilized to determine the direction of the line (a first source creates a line in a first direction, a second source creates a line in a second direction, and same sources related to different centroids (140) create lines oriented in a same direction from the different centroids (140)). The single geocoded data layer allows for 1 pass searching of decoded data, and provides a display with more information than a simple match to a point or centroid (140). The radial display may take any form. Unconfirmed locations in the database may be related only to a centroid (140).

French Abstract:

La presente invention concerne une couche de donnees geocodees unique que l'on cree par conversion des donnees centroides en une ligne en ajoutant ou en soustrayant une distance dans une direction predeterminee a partir du centroide afin de deduire un point final du centroide definissant cette ligne (sous forme de rayon partant du centroide). La source des donnees centroides est utilisee pour determiner le sens de la ligne (une premiere source cree une ligne dans un premier sens, une seconde source cree une ligne dans un second sens, les meme sources relatives a differents centroides creant une ligne orientee dans le meme sens a partir des differents centroides). La couche de donnees geocodees unique permet de rechercher en une passe les donnees geocodees, et fournit un affichage comportant plus d'informations qu'une simple correspondance avec un point ou un centroide. L'affichage radial peut prendre n'importe quelle forme. Les emplacements non confirmes dans la base de donnees peuvent etre lies uniquement a un centroide, un programme d'affichage calculant automatiquement un rayon pour l'affichage en association avec le centroide. L'affichage peut etre sous forme de rayon, rayon a encoches (representant les correspondances supplementaires), couleurs, ou d'autres formes encore.

Type	Pub. Date	Kind	Text
Publication	20010517	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20011004		Late publication of international search report
Republication	20011004	A3	With international search report.
Search Rpt	20011004		Late publication of international search report
Correction	20020801		Corrected version of Pamphlet:
Republication	20020801	A3	With international search report.

Inventor search/non-patent literature
09/439550

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[File 5] **Biosis Previews(R)** 1926-2007/Jun W1
File 5: BIOSIS has been enhanced with archival data. Please see HELP NEWS 5 for information.

[File 6] **NTIS** 1964-2007/Jun W3

[File 50] **CAB ABSTRACTS** 1972-2007/APR
File 50: There is no UD200701, however, the file is complete and up to date. All available data is online.

[File 57] **Electronics & Communications Abstracts** 1966-2007/May

[File 58] **GeoArchive** 1974-2007/May
File 58: Despite the gap in UDs, the file is complete and up to date.

[File 62] **SPIN(R)** 1975-2007/May W4

[File 65] **Inside Conferences** 1993-2007/Jun 13

[File 87] **TULSA (Petroleum Abs)** 1965-2007/May W4

[File 89] **GeoRef** 1785-2007/Apr B1

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/May

[File 105] **AESIS** 1851-2001/Jul
File 105: This file is closed (no updates)

[File 143] **Biol. & Agric. Index** 1983-2007/May

[File 144] **Pascal** 1973-2007/Jun W1

[File 203] **AGRIS** 1974-2007/Apr

[File 266] **FEDRIP** 2007/May

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec

[File 474] **New York Times Abs** 1969-2007/Jun 13

[File 475] **Wall Street Journal Abs** 1973-2007/Jun 13

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13
File 583: This file is no longer updating as of 12-13-2002.

[File 987] **TULSA (Petroleum Abs)** 1965-2007/May W4

[File 2] **INSPEC** 1898-2007/Jun W1

[File 8] **Ei Compendex(R)** 1884-2007/Jun W1

[File 23] **CSA Technology Research Database** 1963-2007/May

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2007/Jun W2

[File 35] **Dissertation Abs Online** 1861-2007/May

[File 63] **Transport Res(TRIS)** 1970-2007/Apr

[File 81] **MIRA - Motor Industry Research** 2001-2007/Mar

[File 95] **TEME-Technology & Management** 1989-2007/Jun W2

[File 111] **TGG Natl.Newspaper Index(SM)** 1979-2007/Jun 07

[File 292] **GEOBASE(TM)** 1980-2007/Jun W2
(c) 2007 Elsevier B.V. All rights reserved.

[File 484] **Periodical Abs Plustext** 1986-2007/Jun W1
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[File 9] **Business & Industry(R)** Jul/1994-2007/Jun 08
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[File 15] **ABI/Inform(R)** 1971-2007/Jun 13
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[File 98] **General Sci Abs** 1984-2007/Jun
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[File 148] **Gale Group Trade & Industry DB** 1976-2007/Jun 11
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[File 160] **Gale Group PROMT(R)** 1972-1989
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[File 624] **McGraw-Hill Publications** 1985-2007/Jun 06
(c) 2007 McGraw-Hill Co. Inc. All rights reserved.
File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more

[File 553] **Wilson Bus. Abs.** 1982-2007/Jun
(c) 2007 The HW Wilson Co. All rights reserved.

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2007/Jun 11
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[File 635] **Business Dateline(R)** 1985-2007/Jun 13
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[File 20] **Dialog Global Reporter** 1997-2007/Jun 13
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[File 610] **Business Wire** 1999-2007/Jun 13
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File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.

[File 810] **Business Wire** 1986-1999/Feb 28
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[File 613] **PR Newswire** 1999-2007/Jun 13
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File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.

[File 813] **PR Newswire** 1987-1999/Apr 30

[File 634] **San Jose Mercury** Jun 1985-2007/Jun 12

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jun 11

[File 256] **TecInfoSource** 82-2007/Oct

Subject Search: Patents bibliographic
09/439550

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S4      1567934   S CENTROID? OR METACENTER? ? OR METACENTRE? ? OR META()(CENTER? OR CENTRE?)
OR BARYCENTER OR CENTER? ? OR CENTRE? OR CENTRAL? ?
S5      2031301   S GEOCOD? OR GEO()COD? OR DEMOGRAPH? OR CHARACTERI?ATION? ? OR DATA
S6       72156    S (VIRTUAL OR AUTOMAT?? OR COMPUTERI?ED OR INTELLIGENT)(2N)(ADDRESS? OR
PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR COMPONENT? ? OR POSITION? ? OR LOCATION? ?
OR NUMBER? ? OR ZIP()CODE OR HOUS? OR HOME? OR STREET? ?)
S7       72803    S (PLURALITY OR GROUP??? OR MULTIPLE? OR SEVERAL OR TWO OR 2 OR PLURAL OR
ANOTHER OR OTHER? ?)(2N)(RADIAL? ? OR RADII OR SPOKE? ? OR RAYS OR RAY OR GRID? ?)
S8       216000   S (USER? ? OR CLIENT? ? OR PATRON? ? OR CONSUMER? ? OR CUSTOMER?
?)(3N)(INPUT? OR (IN()PUT OR PUTS OR PUTTING) OR INFORMATION OR PROMPT? OR PROVOKE? OR
EVOKE? OR CUE OR TRANSMI?)
S9       156235   S (OUTPUT? ? OR OUT()PUT? ? OR TRANSFER? ? OR TRANSMISSION? ? OR TRANSFER?
OR CONVEY OR SHIFT? OR TRANSMIT? OR TRANSPORT? OR TRANSPOS? OR GENERAT? OR PRODUC? OR
DEFIN? OR DEVELOP? OR DISPLAY? ?)(3N)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR
RADIAL? ? OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S10      131326   S S4 AND S5
S11        1073   S S2 AND S10
S12         188   S S11 AND S3
S13          19   S S12 AND S6
S14        5160   S S8 AND S9
S15           3   S S13 AND S14
S16           3   IDPAT (sorted in duplicate/non-duplicate order)
S17           3   IDPAT (primary/non-duplicate records only)
S18          86   S S12(S)S9
S19           4   S S18 AND IC=(A61B-005/00 OR G06F-019/00)
S20           4   S S19 NOT S17
S21           4   IDPAT (sorted in duplicate/non-duplicate order)
S22           4   IDPAT (primary/non-duplicate records only)
S23       18689   S S1(S)S10
S24         977   S S23(S)S3
S25         768   S S24 AND (MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR RADIAL? ?
OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S26         755   S S24(S)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR RADIAL? ? OR
GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S27          22   S S26 AND IC=(A61B-005/00 OR G06F-019/00)
S28           8   S S27 NOT AD=19991109:20070612
S29           8   IDPAT (sorted in duplicate/non-duplicate order)
S30           6   IDPAT (primary/non-duplicate records only)
; show files
```

[File 350] **Derwent WPIX** 1963-2007/UD=200736

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File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit
http://www.dialog.com/dwpi/.

[File 347] **JAPIO** Dec 1976-2006/Dec(Updated 070403)

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17/5/1 (Item 1 from file: 350) **Links**
Derwent WPIX

0014690279 *Drawing available*
WPI Acc no: 2005-037867/200504
XRPX Acc No: N2005-033135
Transportation decision support system for processing transportation, includes tracking application which correlates vehicle location information and bill of lading information, and organizes correlated information into data layers
Patent Assignee: ALLRED P W (ALLR-I); GANNETT FLEMING INC (GANN-N); POLLACK J (POLL-I); SCAER R M (SCAE-I)
Inventor: ALLRED P W; POLLACK J; SCAER R M

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040243299	A1	20041202	US 2003445282	P	20030205	200504	B
			US 2004772517	A	20040205		
US 6871137	B2	20050322	US 2004772517	A	20040205	200521	E

Priority Applications (no., kind, date): US 2003445282 P 20030205; US 2004772517 A 20040205

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040243299	A1	EN	32	21	Related to Provisional	US 2003445282

Alerting Abstract US A1
NOVELTY - The support system (10) includes a tracking application which correlates vehicle location information and bill of lading information, and organizes the correlated information into **data** layers. The tracking application displays the **data** layers as a base map with layers selectable and adjustable by a user to alter the displayed base map.
DESCRIPTION - A client user interface (12) is configured to **display** the base **maps** and **data** layers, and to permit a user to select and adjust the displayed base maps and **data** layers. An INDEPENDENT CLAIM is also included for a method of providing transportation and tracking **information** to a **user**.
USE - Use for requesting, processing, and displaying transportation information and tracking information concerning surface transport of goods and personnel.
ADVANTAGE - Provides a simple to use Internet-based interface that allows a user to request and receive a wide variety of transportation and logistics information in an easy to view **map-like display**, select different **data** layers to alter the displayed map, save, export and to print the altered maps. Allows users to query **generated map displays** to add or delete **data** layers, and to focus on the display, both graphically and in tables and text, particular **data** gathered in response to the initial and subsequent request.

DESCRIPTION OF DRAWINGS - The figure shows the schematic diagram of the transportation decision support system.
10 Support system
12 Client user interface
20 Servers
30 **Data** source
40 **Central** database server

Title Terms /Index Terms/Additional Words: TRANSPORT; DECIDE; SUPPORT; SYSTEM; PROCESS; TRACK; APPLY; CORRELATE; VEHICLE; LOCATE; INFORMATION; BILL; LADEN; ORGANISE; **DATA**; LAYER

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G01C-021/00; G01C-021/26			Main		"Version 7"
G06F-013/00			Secondary		"Version 7

US Classification, Issued: 701200000, 701200000, 700216000, 709219000

File Segment: EPI;
DWPI Class: S02; S03; T01; T07; X23
Manual Codes (EPI/S-X): S02-B01A; S02-K08A; S03-D05; T01-J05A2D; T01-S03; T07-A01A; T07-G; T07-H; X23-B02; X23-B05C

17/5/2 (Item 2 from file: 350) **Links**
Derwent WPIX

0012505297 *Drawing available*
WPI Acc no: 2002-453179/200248
XRPX Acc No: N2002-357308
Automatic mobile object locator e.g. for police car, ambulance, fire truck, transmits positional information of mobile object along with corresponding map data to user, in response to request from user
Patent Assignee: GREY ISLAND SYSTEMS INC (GREY-N)
Inventor: MOORE I A

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6377210	B1	20020423	US 2000513600	A	20000225	200248	B

Priority Applications (no., kind, date): US 2000513600 A 20000225

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6377210	B1	EN	20	18	

Alerting Abstract US B1

NOVELTY - A **data center** (20) stores the **position information** of several mobile objects in a user specific mobile object location database. The datacenter acquires positional information of a mobile object and the corresponding **map data** from respective **databases** and **transmits** it to an **user** terminal (24), in response to a request received from the user terminal through a network (16).

DESCRIPTION - An INDEPENDENT CLAIM is included for mobile object locating method.

USE - For locating mobile objects e.g. police car, ambulance, fire truck, delivery truck, bus, etc., from a **central** location utilizing **global positioning** signals.

ADVANTAGE - As positional information of each vehicle is updated in a database, a target vehicle can be tracked easily and effectively. Enables providing history of a particular vehicle's path of movement and speed.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of an **automatic** mobile **object** locator.

16 Network

20 **Data center**

24 User terminal

Title Terms /Index Terms/Additional Words: AUTOMATIC; MOBILE; OBJECT; LOCATE; POLICE; CAR; AMBULANCE; FIRE; TRUCK; TRANSMIT; POSITION; INFORMATION; CORRESPOND; MAP; **DATA**; USER; RESPOND; REQUEST

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G01S-005/02			Main		"Version 7"
H04B-007/185			Secondary		"Version 7

US Classification, Issued: 342357130, 342357100, 342357090, 701208000

File Segment: EPI;

DWPI Class: T01; T05; W02; W06

Manual Codes (EPI/S-X): T01-C03C; T01-J05B3; T05-G01; T05-G02B1A; W02-G05B; W06-A04B5E

17/5/3 (Item 3 from file: 350) **Links**

0009039104 *Drawing available*
WPI Acc no: 1998-596992/199851
XRPX Acc No: N1998-464599
Automatic ship position and course logger - has logger comprising positioning system, system for communication between positioning and data processing system interfaced with graphic display monitor video
Patent Assignee: GOMARIZ L R (GOMA-I); ROJAS GOMARIZ L (GOMA-I)
Inventor: *ROJAS *GOMARIZ L; GOMARIZ L R; ROJAS G L; ROJAS GOMARIZ L

Patent Family (7 patents, 29 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 880030	A2	19981125	EP 1998500116	A	19980508	199851	B
NO 199802188	A	19981116	NO 19982188	A	19980513	199904	E
ES 2124191	A1	19990116	ES 19971033	A	19970514	199909	E
CA 2237482	A	19981114	CA 2237482	A	19980513	199917	E
JP 11044552	A	19990216	JP 1998146685	A	19980513	199917	E
ES 2124191	B1	19990816	ES 19971033	A	19970514	199939	E
US 20010018633	A1	20010830	US 199878023	A	19980513	200151	E

Priority Applications (no., kind, date): ES 19971033 A 19970514

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 880030	A2	EN	4	1		
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
CA 2237482	A	EN				
JP 11044552	A	JA	4			

Alerting Abstract EP A2
The system is of the type comprising a positioning system (1), a system for communications (3) between the positioning system (1) and the **data** processing system, a **data** processing system (3), a graphic display video monitor (4), a graphics printer (5), and a user keyboard (6). The digital **maps** employed as **databases** for the processing system include not only information regarding the coastlines, but also the boundaries of the territorial waters, such that, by using a specially designed program, precise indications are provided in each position (defined by **longitude** and **latitude**) of the shortest distances to the coastlines and to the above-mentioned boundary lines of territorial waters.
The information processed by the **data** processing system (3) is mapped out on the printer (5) and is logged in the non-volatile **data** storage memory of the **central** processing unit (3), in conjunction with the listing of position (**longitude** and **latitude**), date and time. All of the component parts of the logger (positioning system, connections, interface, computer) are sealable in order to guarantee the tamper-proofness of the information automatically collected.

USE - In automatic real-time logging of ship courses and of ship's position and its distance from shore lines and boundaries of territorial waters.
ADVANTAGE - All of the specially-designed programs employed for the functioning (decoding and logging, **data** processing, display and printing) are duly quality-approved in order to guarantee the effectiveness and accuracy.

Title Terms /Index Terms/Additional Words: AUTOMATIC; SHIP; POSITION; COURSE; LOG; COMPRISE; SYSTEM; COMMUNICATE; **DATA**; PROCESS; INTERFACE; GRAPHIC; DISPLAY; MONITOR; VIDEO

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G01C-021/20; G01C-021/26; G01S-005/00; G01S-005/14; G08G-003/00			Main		"Version 7"
G01S-005/02; G09B-029/10			Secondary		"Version 7

US Classification, Issued: 701200000, 342351000

File Segment: EngPI; EPI;
DWPI Class: S02; T01; W06; P85
Manual Codes (EPI/S-X): S02-B08; T01-J06B1; W06-A03

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22/5/1 (Item 1 from file: 350) **Links**
Derwent WPIX

0015419582 *Drawing available*
WPI Acc no: 2005-766163/200578
XRAM Acc no: C2005-234485
XRPX Acc No: N2005-632397
Genome information display system comprises server, which manages kinds of map screen data, each including position data of individual components constituting genome, and terminals, which are connected to server via network
Patent Assignee: NITTETSU HITACHI SYSTEM ENG KK (NITT-N); NITTETSU HITACHI SYSTEMS ENG INC (NITT-N)
Inventor: AKEO M; AKIZUKI K; OHTANI T; SASAKI J

Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050240358	A1	20051027	US 2005110890	A	20050421	200578	B
JP 2005316597	A	20051110	JP 2004131668	A	20040427	200578	E

Priority Applications (no., kind, date): JP 2004131668 A 20040427

<div align="center">Patent Details</div>

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050240358	A1	EN	34	17		
JP 2005316597	A	JA	33			

Alerting Abstract US A1
NOVELTY - A genome information display system comprising a server (10), which manages kinds of map screen data, each including the position data of individual components constituting a genome, and terminals (60), which are connected to the server via a network, such that a map screen for the graphical representation of each component is displayed on a display mechanism of each terminal, is new.
DESCRIPTION - A genome information display system comprises:

A. a server, which manages kinds of map screen data, each including the position data of individual components constituting a genome, and
B. terminals, which are connected to the server via a network, such that a map screen for the graphical representation of each component is displayed on a display mechanism of each terminal.

An INDEPENDENT CLAIM is also included for a computer-readable recording medium on which is recorded, a program for enabling a computer to execute the functions of a genome information display system.
USE - The system is for reviewing genome information (claimed).
ADVANTAGE - The genome information display system allows the user to quickly conduct operations, such as movement of display content on the screen presenting information of a gene of a genome. The terminal, instead of making a renewed access to the server for **data** communication, quickly prepares an enlarged **map** presenting **the display** extension according to the **operation**, based on the mass of **map** screen **data stored** in the memory mechanism, **and displays the** enlarged **map** at a high speed **matched** with the **user's** operation.
DESCRIPTION OF DRAWINGS - The figure is a constitution diagram for showing the outline of a genome information display system.
10 Server
60 Terminal

Title Terms /Index Terms/Additional Words: GENOME; INFORMATION; DISPLAY; SYSTEM; COMPRISE; SERVE; MANAGE; KIND; MAP; SCREEN; DATA; POSITION; INDIVIDUAL; COMPONENT; CONSTITUTE; TERMINAL; CONNECT; NETWORK

Class Codes

<div align="center">International Patent Classification</div>

IPC	Class Level	Scope	Position	Status	Version Date
G06F-017/30; **G06F-019/00**			Main		"Version 7"
G01N-033/48; G01N-033/50			Secondary		"Version 7

US Classification, Issued: 702020000

File Segment: CPI; EPI
DWPI Class: B04; T01
Manual Codes (EPI/S-X): T01-C07D; T01-J13
Manual Codes (CPI/A-N): B11-C11

22/5/2 (Item 2 from file: 350) **Links**
Derwent WPIX
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0015212851 *Drawing available*
WPI Acc no: 2005-562876/200557
XRAM Acc no: C2005-169882
XRPX Acc No: N2005-461494
Calculating apparatus for calculating and displaying three-dimensional seismic classification features, comprises designation mechanism, reference mechanism, geo-operator, association mechanism, and determination mechanism
Patent Assignee: CHROMA ENERGY INC (CHRO-N)
Inventor: DEAN W K

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050171700	A1	20050804	US 2004769681	A	20040130	200557	B

Priority Applications (no., kind, date): US 2004769681 A 20040130

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20050171700	A1	EN	43	24	

Alerting Abstract US A1
NOVELTY - A calculating apparatus has a designation mechanism for designating a path in three-dimensional volume; a reference mechanism for selecting a reference starting and ending position; a geo-operator calculated from voxel data of the volume; an association mechanism; and a determination mechanism.
DESCRIPTION - An apparatus for calculating and displaying a three-dimensional (3D) seismic classification features comprises a designation mechanism for designating a path in a 3D volume; a reference mechanism for selecting a reference starting and ending position; a geo-operator calculated from the voxel data of the 3D volume, the geo-operator capable of having variable cross-line, inline and vertical extent and having an orientation direction such that it can be maintained tangent to the path, as it traverses from the start point to the endpoint of the path; an association mechanism for associating horizontal (2D), vertical (2D) and arbitrary (3D) feature vectors with the

geo-operator output; and a determination mechanism for determining where the geo-operator has data for the calculation to form a valid output. The output of the geo-operator indicates a measure to which alternative prototypical feature tensors may be present along the path.
INDEPENDENT CLAIMS are also included for the following:

USE - Used for calculating and displaying three-dimensional seismic classification features (claimed).
ADVANTAGE - The apparatus can calculate a quantitative output indication of the condition of 3D-classification features in geoscience **data**, provides for effective flattening of seismic-type **data** in a very computationally economic method, has the ability t provide tensor outputs, and can be used **to** provide unique method of quantitatively combining seismic and non-seismic **data** to condition classification decision boundaries and thus accomplished **data** fusion.
DESCRIPTION OF DRAWINGS - The figure depicts classification of each point of the path as a selection of the best representative eigenvector of the decision space.
13 Label

Title Terms /Index Terms/Additional Words: CALCULATE; APPARATUS; DISPLAY; THREE; DIMENSION; SEISMIC; CLASSIFY; FEATURE; COMPRISE; DESIGNATED; MECHANISM; REFERENCE; GEO; OPERATE; ASSOCIATE; DETERMINE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-019/00			Main		"Version 7"

US Classification, Issued: 702016000

File Segment: CPI; EPI
DWPI Class: H01; T01
Manual Codes (EPI/S-X): T01-J07A; T01-J10C1; T01-J10C4; T01-S03
Manual Codes (CPI/A-N): H01-A01

22/5/3 (Item 3 from file: 350) **Links**
Derwent WPIX
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0013023897 *Drawing available*
WPI Acc no: 2003-102553/200309
Related WPI Acc No: 2003-901688; 2004-303387
XRPX Acc No: N2003-081913
Real time information collection management system for online emergency services, converts received location based information into event messages and GIS data to derive map using reference database
Patent Assignee: ALEXANDER J F (ALEX-I); LAMBERT J D (LAMB-I); MERCKEL G (MERC-I); UNIV NORTH FLORIDA (UYNF-N)
Inventor: ALEXANDER J F; LAMBERT J D; MERCKEL G

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020143469	A1	20021003	US 2001822931	A	20010330	200309	B
US 6574561	B2	20030603	US 2001822931	A	20010330	200339	E

Priority Applications (no., kind, date): US 2001822931 A 20010330

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20020143469	A1	EN	26	7	

Alerting Abstract US A1
NOVELTY - A GPS receiver (12) collects various location based information and accordingly suitable space-time coordinates are assigned. The collected information is forwarded to a center (16) through a satellite radio network (18) for obtaining event messages and associated geographic information system (GIS) data. A reference database is accessed to **generate** an event summary **map** by combining the messages with previous base map.
DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

1. Resources distribution management system; and
2. Field based information distribution method.

USE - For real time emergency information collection management utilized in online emergency services related to natural/artificial disasters.
ADVANTAGE - Ensures effective allocation of resources due to field oriented assessment data. Enables analyzing the scope and magnitude of disaster in a timely manner due to real time and accurate collection of information.
DESCRIPTION OF DRAWINGS - The figure shows a block diagram of emergency management system.
12 GPS receiver
16 Center
18 Satellite radio network

Title Terms /Index Terms/Additional Words: REAL; TIME; INFORMATION; COLLECT; MANAGEMENT ; SYSTEM; EMERGENCY; SERVICE; CONVERT; RECEIVE; LOCATE; BASED; EVENT; MESSAGE; DATA; DERIVATIVE; MAP; REFERENCE; DATABASE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-019/00		.	Main		"Version 7"

US Classification, Issued: 702002000, 702005000, 711100000

File Segment: EPI;
DWPI Class: T01; W01; W02; W05; W06
Manual Codes (EPI/S-X): T01-C03C; T01-N01D; W01-A06B5B; W01-A06C4X; W02-C03D1; W02-C03X; W05-B08; W06-A03A5C

22/5/4 (Item 4 from file: 350) **Links**
Derwent WPIX

0010129425 *Drawing available*
WPI Acc no: 2000-437527/200038
Related WPI Acc No: 2000-164069; 2000-185653; 2002-685719
XRPX Acc No: N2000-327430
Navigation apparatus for vehicles, has transmitter for transmitting route data and guide data obtained by route planning unit and guide data acquisition unit respectively to moving side
Patent Assignee: EQUOS RES KK (EQUO-N)
Inventor: GORAI N; ITO Y; KITANO S; SUGAWARA T; USHIKI N

Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2000155896	A	20000606	JP 1998330406	A	19981120	200038	B
US 6314369	B1	20011106	US 1999345479	A	19990701	200170	E

Priority Applications (no., kind, date): JP 1998192807 A 19980708; JP 1998187335 A 19980702; JP 1998330406 A 19981120

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2000155896	A	JA	12	12	

Alerting Abstract JP A
NOVELTY - A route planning unit searches the route data using the data stored in memory (103). A guide data acquisition unit acquires the guide data based on the result of comparator which compares the route data searched by route planning unit with that of data which is already transmitted. A transmitter transmits the acquired route data and guide data to moving side.
DESCRIPTION - An INDEPENDENT CLAIM is also included for navigation procedure.
USE - For moving body such as vehicles.
ADVANTAGE - By transmitting only the required data without overlapping, the amount of data transmitted to moving side is reduced, thus shortening the communication time.
DESCRIPTION OF DRAWINGS - The figure shows the block diagram of navigation apparatus.
103 Memory

Title Terms /Index Terms/Additional Words: NAVIGATION; APPARATUS; VEHICLE; TRANSMIT; ROUTE;

DATA; GUIDE; OBTAIN; PLAN; UNIT; ACQUIRE; RESPECTIVE; MOVE; SIDE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	· Version Date
G01C-021/00; G08G-001/137			Main		"Version 7"
G01S-013/00; G06F-017/00; **G06F-019/00**; G06F-007/00; G09B-029/00			Secondary		"Version 7

US Classification, Issued: 701209000, 701200000, 701201000, 701207000, 701208000, 701210000, 340990000 , 340993000, 340995000, 340998000, 455032100, 370215000, 370252000, 370401000, 370480000

File Segment: EngPI; EPI;
DWPI Class: S02; T07; W01; P85
Manual Codes (EPI/S-X): S02-B08; T07-A05

===

30/5/1 (Item 1 from file: 350) **Links**
Derwent WPIX

0009263337 *Drawing available*
WPI Acc no: 1999-191738/199917
XRPX Acc No: N1999-140348
Map data selection assistance unit e.g. for vehicle navigation system
Patent Assignee: TOYOTA JIDOSHA KK (TOYT)
Inventor: NINAGAWA Y

Patent Family (3 patents, 3 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 19837618	A1	19990311	DE 19837618	A	19980819	199917	B
JP 11065436	A	19990305	JP 1997225190	A	19970821	199920	E
US 6075467	A	20000613	US 1998134431	A	19980814	200035	E

Priority Applications (no., kind, date): JP 1997225190 A 19970821

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
DE 19837618	A1	DE	31	20	
JP 11065436	A	JA	21		

Alerting Abstract DE A1
NOVELTY - The unit includes a map data memory, a location specifier, a region specifier, and a map scale specifier. A selector chooses a map from the data memory which covers the specified scale, place and region.
DESCRIPTION - INDEPENDENT CLAIMS are also included for a **map data** processing system, and a **map data** processing apparatus.
USE - E.g. for vehicle information and communication system (VICS) or intelligent transport system (ITS).
ADVANTAGE - Allows easy finding any **map**, without having to look through large volume of **maps** or specify exact names.
DESCRIPTION OF DRAWINGS - The drawing shows a block diagram of a **map data** processing system.
1 terminal unit in vehicle
3 control unit
5 storage unit
15 display
19 **GPS** unit
20 information **central** station

Title Terms /Index Terms/Additional Words: MAP; DATA; SELECT; ASSIST; UNIT; VEHICLE; NAVIGATION; SYSTEM

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G08G-001/123; G09B-029/10			Main		"Version 7"
G01C-021/00; **G06F-019/00**; G08G-001/0969			Secondary		"Version 7

US Classification, Issued: 340995000, 340990000, 701212000, 701213000, 702150000, 707200000, 395161000, 395617000, 345146000

File Segment: EngPI; EPI;
DWPI Class: S02; T01; T07; W06; X22; P85
Manual Codes (EPI/S-X): S02-B08A; T01-J06B1; T07-A05C; T07-G; W06-A03A5; X22-E06D

30/5/2 (Item 2 from file: 350) **Links**
Derwent WPIX

0008701080 *Drawing available*
WPI Acc no: 1998-241032/199821
Related WPI Acc No: 2001-624832
XRPX Acc No: N1998-190645
Map-based navigation system - displays map images stored in unique format to provide images centred on

any latitude or longitude supplied to processor
Patent Assignee: AMES MAPS LLC (AMES-N)
Inventor: CURTRIGHT W A; CURTWRIGHT W A; PARKS E E

Patent Family (7 patents, 77 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1998015912	A1	19980416	WO 1997US19017	A	19971010	199821	B
AU 199852389	A	19980505	AU 199852389	A	19971010	199836	E
US 5884219	A	19990316	US 1996728617	A	19961010	199918	E
EP 944872	A1	19990929	EP 1997947268	A	19971010	199945	E
			WO 1997US19017	A	19971010		
AU 728762	B	20010118	AU 199852389	A	19971010	200109	E
US 6199015	B1	20010306	US 1996728617	A	19961010	200115	E
			US 1997943838	A	19971003		
JP 2001525053	W	20011204	WO 1997US19017	A	19971010	200203	E
			JP 1998517815	A	19971010		

Priority Applications (no., kind, date): US 1996728617 A 19961010; US 1997943838 A 19971003

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1998015912	A1	EN	26	11		
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW					
Regional Designated States,Original	AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
AU 199852389	A	EN			Based on OPI patent	WO 1998015912
EP 944872	A1	EN			PCT Application	WO 1997US19017
					Based on OPI patent	WO 1998015912
Regional Designated States,Original	AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
AU 728762	B	EN			Previously issued patent	AU 9852389
					Based on OPI patent	WO 1998015912
US 6199015	B1	EN			C-I-P of application	US 1996728617
					C-I-P of patent	US 5884219
JP 2001525053	W	JA	26		PCT Application	WO 1997US19017
					Based on OPI patent	WO 1998015912

Alerting Abstract WO A1

The navigation system includes a processor (20) with bit-**mapped** earth surface **map** image **data** stored in memory (28), and displays an image essentially filling a display area of a screen and **centred** on any **latitude** and **longitude** supplied to the processor (20). The image has no discontinuities.

The processor (20) may receive **latitude** or **longitude** inputs from a user via an input device (22) or from a **global positioning** system (**GPS**) receiver (26) incorporated into the navigation system. The displayed **map data** may therefore be **centred** on a desired **longitude** and **latitude** of on the **longitude** or **latitude** of the system itself.

USE - Displaying **map**-based information e.g. relating to facilities in vicinity of location selected by relative to stored **map** information, weather conditions etc.

Title Terms /Index Terms/Additional Words: **MAP**; BASED; NAVIGATION; SYSTEM; DISPLAY; IMAGE; STORAGE; UNIQUE; FORMAT; **CENTRE**; **LATITUDE**; **LONGITUDE**; SUPPLY; PROCESSOR

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G01C-021/00; G06F-165/00; G06F-017/00; **G06F-019/00**			Main		"Version 7"
G08G-005/00			Secondary		"Version 7

US Classification, Issued: 701213000, 701208000, 340990000, 340995000, 701213000, 701208000, 340990000, 340995000

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-J06B1

30/5/3 (Item 3 from file: 350) **Links**
Derwent WPIX
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0008691514 *Drawing available*
WPI Acc no: 1998-230915/199820
Related WPI Acc No: 2000-542631
XRPX Acc No: N1998-182769
Optimisation system for operating independent soil irrigation systems - uses actual soil condition information and actual weather condition information to determine need for irrigation system operation
Patent Assignee: HERGERT C D (HERG-I)
Inventor: HERGERT C D

Patent Family (3 patents, 21 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1998013780	A1	19980402	WO 1997US16492	A	19970917	199820	B
US 5740038	A	19980414	US 1996721226	A	19960926	199822	E
AU 199744212	A	19980417	AU 199744212	A	19970917	199834	E

Priority Applications (no., kind, date): US 1996721226 A 19960926

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1998013780	A1	EN	20	2		
National Designated States,Original	AU CA RU					
Regional Designated States,Original	AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
US 5740038	A	EN	8	2		
AU 199744212	A	EN			Based on OPI patent	WO 1998013780

Alerting Abstract WO A1
The system (22) for optimising irrigation system operation includes a global positioning satellite receiver (26) coupled to a computer (16), a geographical information satellite transmission receiver (24) coupled to the computer (16), and a number of irrigation pivot controllers (20) remotely coupled to the computer (16). A grid power monitor (28) is also coupled to the computer for providing power grid demand and usage data to the computer (16).
The computer generates priorities of operation for the irrigation systems based on the soil condition information and most economical load operating periods from the electrical power utility (28).
USE - Optimising control of central pivot and travelling irrigation pumps and spray header drive systems in soil irrigation systems.
ADVANTAGE - Prioritises irrigation needs of particular pivot systems in accordance with actual soil and weather conditions.

US Classification, Issued: 364420000

File Segment: EPI;
DWPI Class: T01; X25
Manual Codes (EPI/S-X): T01-J07; X25-N01B

30/5/4 (Item 4 from file: 350) **Links**
Derwent WPIX
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0007256891 *Drawing available*
WPI Acc no: 1995-311400/199540
XRPX Acc No: N1995-235161
Golf course guiding and managing system - divides respective holes and greens into cells of very small area and detects position of guiding device
Patent Assignee: HYUGA M (HYUG-I)
Inventor: HYUGA M

Patent Family (9 patents, 45 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type

WO 1995023012	A1	19950831	WO 1994JP288	A	19940224	199540	B
AU 199461152	A	19950911	AU 199461152	A	19940224	199550	E
			WO 1994JP288	A	19940224		
EP 710494	A1	19960508	EP 1994907672	A	19940224	199623	E
			WO 1994JP288	A	19940224		
JP 07504458	X	19960326	WO 1994JP288	A	19940224	199644	E
			JP 1995504458	A	19940224		
AU 684492	B	19971218	AU 199461152	A	19940224	199808	NCE
US 5797809	A	19980825	WO 1994JP288	A	19940224	199841	E
			US 1995454286	A	19950616		
EP 710494	B1	20011121	EP 1994907672	A	19940224	200176	E
			WO 1994JP288	A	19940224		
DE 69429175	E	20020103	DE 69429175	A	19940224	200210	E
			EP 1994907672	A	19940224		
			WO 1994JP288	A	19940224		
CA 2161123	C	20040817	CA 2161123	A	19940224	200455	E
			WO 1994JP288	A	19940224		

Priority Applications (no., kind, date): AU 199461152 A 19940224; WO 1994JP288 A 19940224

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1995023012	A1	JA	72	23		
National Designated States, Original	AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US UZ VN					
Regional Designated States, Original	AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE					
AU 199461152	A	EN			PCT Application	WO 1994JP288
					Based on OPI patent	WO 1995023012
EP 710494	A1	EN	39	23	PCT Application	WO 1994JP288
					Based on OPI patent	WO 1995023012
Regional Designated States, Original	DE FR GB					
JP 07504458	X	JA		0	PCT Application	WO 1994JP288
					Based on OPI patent	WO 1995023012
AU 684492	B	EN			Previously issued patent	AU 9461152
					Based on OPI patent	WO 1995023012
US 5797809	A	EN			PCT Application	WO 1994JP288
					Based on OPI patent	WO 1995023012
EP 710494	B1	EN			PCT Application	WO 1994JP288
					Based on OPI patent	WO 1995023012

Regional Designated States,Original	DE FR GB					
DE 69429175	E	DE			Application	EP 1994907672
					PCT Application	WO 1994JP288
					Based on OPI patent	EP 710494
					Based on OPI patent	WO 1995023012
CA 2161123	C	EN			PCT Application	WO 1994JP288
					Based on OPI patent	WO 1995023012

Alerting Abstract WO A1

In the respective holes, a position of a golf course guiding device is detected in association with each cell by a slave device position detector. Information on a corresponding cell, the distance and direction from a hole cell information table of a hole cell information storage unit to a green centre, are indicated on a LCD. Also, the distance is corrected in view of wind direction and wind velocity.
The slave device position detector similarly performs detection in the respective holes in association with each cell, and information on a corresponding cell, a distance from a green cell information table of a green cell information storage unit to a pin, and a slope, a turf condition and the like, are indicated on the LCD. In a golf course managing device (1), positions of the respective golf course guiding devices are detected to be indicated on a CRT display (11) for managing of distances between players and progress of playing.

Title Terms /Index Terms/Additional Words: GOLF; COURSE; GUIDE; MANAGE; SYSTEM; DIVIDE; RESPECTIVE; HOLE; GREENS; CELL; AREA; DETECT; POSITION; DEVICE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A63B-071/06			Main		"Version 7"
G06F-015/44; **G06F-019/00**; G09F-017/00			Secondary		"Version 7

US Classification, Issued: 473407000, 473131000, 342126000, 342357000, 342450000, 340500000, 340825320 , 340323000

File Segment: EngPI; EPI;
DWPI Class: W04; P36; P85
Manual Codes (EPI/S-X): W04-X01D; W04-X01F

30/5/5 (Item 5 from file: 350) **Links**
Derwent WPIX

Map projection transformation for geographical information processing - using latitude and longitude centred on projection area and applying linear interpolation
Patent Assignee: HITACHI LTD (HITA)
Inventor: FUJITA T; KAKUMOTO S; NOMOTO Y

Patent Family (4 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 509839	A2	19921021	EP 1992303490	A	19920416	199243	B
EP 509839	A3	19950111	EP 1992303490	A	19920416	199538	E
US 5544052	A	19960806	US 1992870904	A	19920420	199637	E
			US 1995396328	A	19950228		
EP 509839	B1	19980701	EP 1992303490	A	19920416	199830	E

Priority Applications (no., kind, date): JP 199188109 A 19910419

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 509839	A2	EN	31	16		
Regional Designated States,Original	FR GB					
EP 509839	A3	EN				
US 5544052	A	EN	28	16	Continuation of application	US 1992870904
EP 509839	B1	EN				
Regional Designated States,Original	FR GB					

Alerting Abstract EP A2
The geographical information processing system includes a graphic database (105) holding **map data** using a coordinate system based on **latitude** and **longitude**. All transformations are performed using the **longitude** and **latitude** system. The region to be transformed (101) and a region of interest (102) identified. Transformation equations are determined and carried out by linear interpolation using a 3 * 3 matrix of constants and by subdividing the area into management units. Each of the units can be processed independently using parallel processing. USE/ADVANTAGE - Transforms graphic **data** co-ordinate into desirable **map** projection. Simplifies transformations by using **latitude** and **longitude** references and linear transformations on sections.

Title Terms /Index Terms/Additional Words: **MAP**; PROJECT; TRANSFORM; GEOGRAPHICAL ; INFORMATION; PROCESS; **LATITUDE**; **LONGITUDE**; **CENTRE**; AREA; APPLY; LINEAR; INTERPOLATION

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-015/62; **G06F-019/00**; G06T-017/50			Main		"Version 7"
G09B-029/00			Secondary		"Version 7

US Classification, Issued: 364420000

File Segment: EPI;
DWPI Class: T01
Manual Codes (EPI/S-X): T01-J04; T01-J10; T01-J10G

30/5/6 (Item 6 from file: 350) **Links**
Derwent WPIX
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0005912449 *Drawing available*
WPI Acc no: 1992-141954/199218
XRPX Acc No: N1992-106172
Transport monitoring system using radio transmitters - sends data telegrams to control centre contg. identity, travel information and vehicle position data
Patent Assignee: DAIMLER-BENZ AEROSPACE AG (DAIM); TELEFUNKEN SYSTEMTECHNIK GMBH (TELE)
Inventor: RITTER U

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 4032198	A	19920423	DE 4032198	A	19901011	199218	B
DE 4032198	C2	19951019	DE 4032198	A	19901011	199546	E

Priority Applications (no., kind, date): DE 4032198 A 19901011

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
DE 4032198	A	DE	7	3	
DE 4032198	C2	DE	7	3	

Alerting Abstract DE A
The transport monitor involves providing a mobile subscriber (2, 3) with a vehicle-mounted radio transmitter which sends digital data telegrams to a control centre. There are several fixed stations (10, 11, 12). The data telegrams

contain fixed, vehicle-specific data, manually provided transport data and sensor or externally provided position data.

The control **centre** requests transmissions of **data** telegrams from the mobiles by sending digital transmission request signals to them. The positions of the mobiles are displayed on a geographic **map** and all travel and transport-specific **data** held in a memory for vehicles whilst they are in the region controlled by the control **centre**. USE/ADVANTAGE - E.g. for controlling cash transport, dangerous material transport, taxis, buses, etc. The method and arrangement enable continuous monitoring of vehicles for position, direction, identity, etc. at economical cost.

Title Terms /Index Terms/Additional Words: TRANSPORT; MONITOR; SYSTEM; RADIO; TRANSMIT; SEND; DATA; TELEGRAM; CONTROL; CENTRE; CONTAIN; IDENTIFY; TRAVEL; INFORMATION; VEHICLE; POSITION

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G06F-019/00			Main		"Version 7"
G01S-005/10; G06F-015/48; G08G-001/12; H04B-001/38; H04B-007/26			Secondary		"Version 7

File Segment: EPI;
DWPI Class: T01; T07; W02; W05; W06
Manual Codes (EPI/S-X): T01-J06B; T07-A03; W02-G02B; W05-A05A; W05-B05B2; W06-A03

Subject Search: Patent full text
09/439550

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Set      Items    Description
S1     1102748    S (MAP OR MAPS OR MAPP? OR (CARTOGRAPH? OR GEOGRAPH?)(2N)(CHART? OR
LOCATOR? ? OR NAVIGATOR? ? OR DIAGRAM? ?) OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST
OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)
S2      14657     S S1 (3N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR
BANK? ? OR SET? ? OR FILE? ? OR TABLE? ?) OR DB OR (ORGANI?ED()COLLECTION? ? OR RELATED OR
INTERRELATED)(2N)(FILES OR INFORMATION OR DATA) OR INFORMATION(N)MANAGEMENT OR SIMS OR
(CENTRAL? OR PERSISTENT)(2N)STORAGE OR KNOWLEDGEBASE? ?)
S3      70432     S GIS OR GPS OR GLOBAL()POSITION? OR (GLOBAL OR SATELLITE? ?)()LOCAT??? OR
GLONASS OR POSITION()(DATA OR INFORMATION) OR LONGITUDE OR LATITUDE OR ALTITUDE OR LORAN
GEORGRAPHICAL()INFORMATION()SYSTEM
S4      964697    S CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?)
OR BARYCENTER OR CENTER? ? OR CENTRE? OR CENTRAL? ?
S5      823410    S GEOCOD? OR GEO()COD? OR DEMOGRAPH? OR CHARACTERI?ATION? ? OR DATA
S6      47224     S (VIRTUAL OR AUTOMAT?? OR COMPUTERI?ED OR INTELLIGENT)(2N)(ADDRESS? OR
PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR COMPONENT? ? OR POSITION? ? OR LOCATION? ?
OR NUMBER? ? OR ZIP()CODE OR HOUS? OR HOME? OR STREET? ?)
S7      66519     S (PLURALITY OR GROUP??? OR MULTIPLE? OR SEVERAL OR TWO OR 2 OR PLURAL OR
ANOTHER OR OTHER? ?)(2N)(RADIAL? ? OR RADII OR SPOKE? ? OR RAYS OR RAY OR GRID? ?)
S8      150351    S (USER? ? OR CLIENT? ? OR PATRON? ? OR CONSUMER? ? OR CUSTOMER?
?)(3N)(INPUT? OR (IN()PUT OR PUTS OR PUTTING) OR INFORMATION OR PROMPT? OR PROVOKE? OR
EVOKE? OR CUE OR TRANSMI?)
S9      134493    S (OUTPUT? ? OR OUT()PUT? ? OR TRANSFER? ? OR TRANSMISSION? ? OR TRANSFER?
OR CONVEY OR SHIFT? OR TRANSMIT? OR TRANSPORT? OR TRANSPOS? OR GENERAT? OR PRODUC? OR
DEFIN? OR DEVELOP? OR DISPLAY? ?)(3N)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR
RADIAL? ? OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S10     125240    S S4(S)S5
S11        818    S S2(S)S10
S12         61    S S11(S)S6
S13          3    S S12(S)S7
S14          3    IDPAT (sorted in duplicate/non-duplicate order)
S15          1    IDPAT (primary/non-duplicate records only)
S16      22344    S S1(S)S10
S17        610    S S16(S)S6
S18        125    S S17(S)S8
S19         28    S S18(S)S9
S20          1    S S19 AND IC=(A61B-005/00 OR G06F-019/00)
S21         16    S S19 AND IC=(A61B? OR G06F?)
S22         16    IDPAT (sorted in duplicate/non-duplicate order)
S23         11    IDPAT (primary/non-duplicate records only)
S24         11    S S23 NOT S15
S25          3    S S24 NOT AD=19991109:20070612
S26       7901    S S2(S)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR RADIAL? ? OR
GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S27        832    S S26(S)S4
S28        543    S S27(S)S5
S29        128    S S28(S)S3
S30          1    S S29 AND IC=(A61B-005/00 OR G06F-019/00)
S31         13    S S28 AND IC=(A61B-005/00 OR G06F-019/00)
S32          3    S S31 NOT AD=19991109:20070612
S33          3    IDPAT (sorted in duplicate/non-duplicate order)
S34          1    IDPAT (primary/non-duplicate records only)
S35          1    S S34 NOT (S23 OR S30 OR S15)
; show files
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[File 348] **EUROPEAN PATENTS** 1978-2007/ 200723

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15/5/1 (Item 1 from file: 348) <u>Links</u>
EUROPEAN PATENTS
00662896
Recording and reproducing apparatus
Aufzeichnungs- und Wiedergabegerat
Appareil d'enregistrement et de reproduction

Patent Assignee:

• **MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.**; (216883)
  1006, Oaza-Kadoma; Kadoma-shi, Osaka-fu 571-8501; (JP)
  (Proprietor designated states: all)

Inventor:

• **Oshima, Mitsuaki**
  115-3, Katsura Minami Tatsumi-cho; Nishikyo-ku, Kyoto; (JP)

Legal Representative:

• **Senior, Alan Murray (35712)**
  J.A. KEMP & CO., 14 South Square, Gray's Inn; London WC1R 5LX; (GB)

	Country	Number	Kind	Date	
Patent	EP	637016	A2	19950201	(Basic)
	EP	637016	A3	19950830	
	EP	637016	B1	20010307	
Application	EP	94305557		19940727	
Priorities	JP	93205682		19930727	
	JP	94104879		19940418	
	JP	94156089		19940707	
	JP	93297504		19931102	
	JP	93314114		19931119	

Designated States:

BE; CH; DE; FR; GB; IT; LI; NL;

Related Divisions: Patent (Application):EP 1050879 (EP 115017)

International Patent Class (V7): G11B-007/00; G11B-013/04; G11B-011/10; G11B-019/02; G11B-020/00; G11B-023/28**CITED PATENTS: (EP B)**

DE 4308680 A; NL 9101358 A; **Abstract** EP 637016 A2

A disk-shaped recording medium (2) includes a transparent substrate (5), and an optical recording layer (4) formed on the transparent substrate (5). A light source emits light. An optical head (6) is operative for applying the light to the optical recording layer from the light source via the transparent substrate, for focusing the light on the optical recording layer, and for reproducing information from the optical recording layer. A position detecting device is operative for detecting at least one of a pit depth and a physical position of information which has a first given relation with a specified address and which is recorded on the recording medium, and for generating first positional information representing at least one of the pit depth and the physical position. A previously-recorded secret code (538) is reproduced (534) from the recording medium. The secret code represents second positional information. The secret code is decoded into the second positional information. The second positional information represents at least one of a predetermined reference pit depth and a predetermined reference physical position. The first positional information and the second positional information are collated (535), and a check is made as to whether or not the first positional information and the second positional information are in a second given relation. When the first positional information and the second positional information are not in the second given relation, one of outputting of a reproduced signal of the recording medium, operation of a program stored in the recording medium, and decoding of the secret code is stopped. (see image in original document)

Abstract Word Count: 263
NOTE: 243
NOTE: Figure number on first page: 243

Type	Pub. Date	Kind	Text
Change:	20000913	A2	Application number of divisional application (Article 76) changed: 20000725
Application:	19950201	A2	Published application (A1with;A2without)
Oppn None:	20020227	B1	No opposition filed: 20011208
Grant:	20010307	B1	Granted patent
Examination:	19950201	A2	Date of filing of request for examination: 940805
Search Report:	19950830	A3	Separate publication of the European or International search report
Examination:	19980408	A2	Date of despatch of first examination report: 980220

Publication: English
Procedural: English
Application:English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	497
SPEC A	(English)	EPABF2	73803

CLAIMS B	(English)	200110	832
CLAIMS B	(German)	200110	734
CLAIMS B	(French)	200110	981
SPEC B	(English)	200110	58999
Total Word Count (Document A) 74313			
Total Word Count (Document B) 61546			
Total Word Count (All Documents) 135859			

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25/5/1 (Item 1 from file: 348) **Links**
EUROPEAN PATENTS

00306058
Digital data processing system.
Digitales Datenverarbeitungssystem.
Systeme de traitement de donnees numeriques.

Patent Assignee:

- **DATA GENERAL CORPORATION**; (410940)
  Route 9; Westboro Massachusetts 01581; (US)
  (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)

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  214 W. Canton Street Suite 4; Boston Massachusetts 02116; (US)

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  41 Bay Colony Drive; Ashland Massachusetts 01721; (US)

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  9 Brook Trail Road; Wayland Massachusetts 01778; (US)

- **Clancy, Gerald F.**
  13069 Jaccaranda Center; Saratoga California 95070; (US)

- **Gavrin, Edward S.**
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- **Gruner, Ronald Hans**
  112 Dublin Wood Drive; Cary North Carolina 27514; (US)

- **Jones, Thomas M. Jones**
  300 Reade Road; Chapel Hill North Carolina 27514; (US)

- **Katz, Lawrence H.**
  10943 S. Forest Ridge Road; Oregon City Oregon 97045; (US)

- **Mundie, Craig James**
  136 Castlewood Drive; Cary North Carolina; (US)

Lapse:	20000209	B1	(Country, date): AT 19931222, BE 19931222, FR 19940513, IT 19931222, LU 19940531, NL 19931222, SE 19931222,
Change:	20060405	B1	Title of invention (French) changed: 20060405
Change:	20060405	B1	Title of invention (English) changed: 20060405
Application:	19881109	A2	Published application (A1with;A2without)
Search Report:	19890503	A3	Separate publication of the European or International search report
Examination:	19891220	A2	Date of filing of request for examination: 891026
Examination:	19920115	A2	Date of despatch of first examination report: 911202
Grant:	19931222	B1	Granted patent
Change:	19940810	B1	Representative (change)
Lapse:	19940928	B1	Date of lapse of the European patent in a Contracting State: NL 931222
Lapse:	19941026	B1	Date of lapse of the European patent in a Contracting State: NL 931222, SE 931222
Lapse:	19941117	B1	Date of lapse of the European patent in a Contracting State: AT 931222, NL 931222, SE 931222
Lapse:	19941130	B1	Date of lapse of the European patent in a Contracting State: AT 931222, BE 931222, NL 931222, SE 931222
Oppn None:	19941214	B1	No opposition filed
Lapse:	19950118	B1	Date of lapse of the European patent in a Contracting State: AT 931222, BE 931222, FR 940513, NL 931222, SE 931222
Lapse:	19991020	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19931222, BE 19931222, FR 19940513, IT 19931222, NL 19931222, SE 19931222,

Publication: English
Procedural: English
Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1044
CLAIMS B	(German)	EPBBF1	890
CLAIMS B	(French)	EPBBF1	1185
SPEC B	(English)	EPBBF1	154314
Total Word Count (Document A) 0			
Total Word Count (Document B) 157433			
Total Word Count (All Documents) 157433			

25/5/2 (Item 1 from file: 349) **Links**
PCT FULLTEXT
00514167

FLEET MANAGEMENT SYSTEM AND METHOD
SYSTEME ET PROCEDE DE GESTION DE PARC AUTOMOBILE

Patent Applicant/Patent Assignee:

- **MOBILE INFORMATION SYSTEM INC;**
  ; ;

	Country	Number	Kind	Date
Patent	WO	9945519	A2	19990910
Application	WO	99US4931		19990305
Priorities	US	9836094		19980306

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/60	Main

Publication Language: English
Filing Language:
Fulltext word count: 14527

English Abstract:

According to the present invention, a technique for processing data is provided. The invention provides a fleet management system with a novel interface unit. The interface unit (116) that includes a processor (122). A positioning system (120) couples to a first antenna (126) and to the processor. A remote data terminal (118) electrically couples to the interface unit during at least a first time period. The remote data terminal is capable of data transfers with the interface unit during the first time period and with a user.

French Abstract:

L'invention concerne une technique de traitement de donnees ainsi qu'un systeme de gestion de parc automobile dote d'un module d'interfacage nouveau (116) comprenant un processeur (122). Un systeme de positionnement (120) est couple a une premiere antenne (126) et au processeur. Une terminal eloigne (118) est couple electriquement au module d'interfacage pendant au moins une premiere periode. Il est capable de transferer des donnees au module d'interfacage pendant la premiere periode et un utilisateur.

25/5/3 (Item 2 from file: 349) **Links**
PCT FULLTEXT
00465480
SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR PATENT-CENTRIC AND GROUP-ORIENTED DATA PROCESSING, INCLUDING USING HYPERBOLIC TREES TO VISUALIZE

DATA
SYSTEME, PROCEDE, ET PROGRAMMES INFORMATIQUES POUR LE TRAITEMENT DE DONNEES
AXES SUR DES BREVETS D'INVENTION OU DES GROUPES, INCLUANT L'UTILISATION
D'ARBORESCENCES HYPERBOLIQUES POUR VISUALISER DES DONNEES

Patent Applicant/Patent Assignee:

- **SMARTPATENTS INC;**
  ; ;

	Country	Number	Kind	Date
Patent	WO	9855945	A1	19981210
Application	WO	98US10923		19980602
Priorities	US	97867392		19970602
	US	97921369		19970829

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/30	Main

Publication Language: English
Filing Language:
Fulltext word count: 83313

English Abstract:

A system, method, and computer program product for processing data are described herein. The system maintains first databases of patents, and second databases of non-patent information of interest to a corporate entity. The system also maintains one or more groups. Each of the groups comprises any number of the patents from the first databases. The system, upon receiving appropriate operator commands, automatically processes the patents in one of the groups in conjunction with non-patent information from the second databases. Accordingly, the system performs patent-centric and group-oriented processing of data. A group can also include any number of non-patent documents. The groups may be product based, person based, corporate entity based, or user-defined. Other types of groups are also covered, such as temporary groups. The processing automatically performed by the system relates to (but is not limited to) patent mapping, document mapping, patent citation (both forward and backward), patent aging, patent braketing/clustering (both forward and backward), inventor patent count, inventor employment information, patent claim tree analysis, and finance. Other functions and capabilities are also covered, including the ability to utilize hyperbolic trees to visualize data generated by the system, method, and computer program product.

French Abstract:

L'invention porte sur un systeme, un procede et un ensemble de programmes informatiques de traitement de donnees comportant de premieres bases de donnees de brevets, de deuxiemes bases de donnees d'informations non relatives a des brevets, mais presentant un interet pour une societe, et egalement un ou plusieurs groupes comprenant chacun un certain nombre de brevets des premieres bases de donnees. Au recu d'ordres appropries d'un operateur, le systeme

traite automatiquement les brevets de l'un des groupes en association avec des d'informations non relatives a des brevets des deuxiemes bases de donnees. Le systeme execute donc des traitements de donnees centres sur les brevets et sur les groupes. Un groupe peut egalement contenir des documents non relatifs a des brevets. Les groupes peuvent etre axes sur les produits, sur les personnes, sur les societes, ou sur les utilisateurs. D'autres groupes tels que des groupes temporaires sont egalement prevus. Le traitement qu'execute automatiquement le systeme porte (non limitativement) sur: la mise en concordance des brevets et des documents, les citations des brevets (vers l'amont ou l'aval), la classification chronologique, la classification par tranches d'anciennete et le regroupement (vers l'amont ou l'aval), le comptage des brevets par inventeur, les informations sur les employeurs des inventeurs, l'analyse arborescente des revendications, et l'aspect financier, ainsi que sur d'autres fonctions et possibilites dont la capacite d'utiliser des arborescences hyperboliques pour visualiser des donnees produites par le systeme, par le procede et par les programmes informatiques.

==

30/5/1 (Item 1 from file: 349) **Links**
PCT FULLTEXT
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00423319
SYSTEM AND METHOD FOR OPTIMIZED CONTROL OF MOVING IRRIGATION SYSTEMS
SYSTEME ET PROCEDE DESTINES A OPTIMISER LE FONCTIONNEMENT DE SYSTEMES D'IRRIGATION MOBILES

Patent Applicant/Patent Assignee:

● **HERGERT C David;**

   ; ;

	Country	Number	Kind	Date
Patent	WO	9813780	A1	19980402
Application	WO	97US16492		19970917
Priorities	US	96721226		19960926

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Main International Patent Classes (Version 7):

IPC	Level
G06F-019/00	Main

Publication Language: English
Filing Language:
Fulltext word count: 4447

English Abstract:

The system (22) for optimization of irrigation system (Figure 1) operation comprises a computer (16), storage device (34) coupled to the computer (16) for storing data, a global positionning satellite transmission receiver (26) coupled to the computer (16), a geographic information satellite transmission receiver (24) coupled to the computer (16), a plurality of irrigation pivot controllers (20) remotely coupled to the computer (16), and a grid power monitor (28)

coupled to the computer (16) for providing power grid demand and usage data to the computer (16). The system (22) may also include a plurality of sensors (14) located in each of the irrigated fields (12) which transmit soil information directly to the central computer (16) and which supplement the information from the GIS satellite. The computer (16) in turn generates priorities of operation for the irrigation systems based on the soil condition information and most economical load operating periods from the electrical power utility (28).

French Abstract:

L'invention se rapporte a un systeme (22), qui est destine a optimiser le fonctionnement d'un systeme d'irrigation (figure 1) et qui comprend les elements suivants: un ordinateur (16); un dispositif (34) de stockage, qui est associe a l'ordinateur (16) et qui sert a stocker des donnees; un recepteur (26) du systeme mondial de localisation, qui est associe a l'ordinateur (16); un recepteur (24) du systeme d'information geographique, qui est associe a l'ordinateur (16); une pluralite d'unites (20) de commande des rampes d'irrigation, qui sont associees a distance a l'ordinateur (16); et un controleur (28) de secteur, qui est associe a l'ordinateur (16) pour lui fournir une demande de secteur et des donnees relatives a l'utilisation. Ledit systeme (22) peut egalement comprendre une pluralite de capteurs (14) places dans les champs (12) irrigues, qui transmettent directement des renseignements sur les conditions pedologiques a l'ordinateur (16) central et qui transmettent les informations recues du satellite GIS. L'ordinateur (16) choisit alors des modes prioritaires de fonctionnement des systemes d'irrigation en fonction des renseignements relatifs aux conditions pedologiques et des plages de fonctionnement les plus economiques donnees par ladite centrale (28) electrique.

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35/5/1 (Item 1 from file: 349) **Links**
PCT FULLTEXT
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00407320
COMPUTER AIDED ROUTING AND POSITIONING SYSTEM
SYSTEME D'ETABLISSEMENT D'ITINERAIRE ET DE POSITIONNEMENT ASSISTE PAR ORDINATEUR

Patent Applicant/Patent Assignee:

• **DELORME PUBLISHING COMPANY INC;**
  ; ;

	Country	Number	Kind	Date
Patent	WO	9748065	A1	19971218
Application	WO	97US9989		19970609
Priorities	US	96661600		19960611

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Main International Patent Classes (Version 7):

IPC	Level
G06F-019/00	Main
G01C-21:00	

G09B-29:10

English Abstract:

A Computer Aided Routing and Position System (CARPS) determines a travel route (123) along selected waypoints (124) that include a travel origin and a travel destination and intermediate waypoints therebetween. The selected waypoints (124) may be uploaded to or downloaded from various geocoding devices that utilize the Global Positioning System (GPS). A CARPS database incorporates travel information selected from a range of multimedia sources about the transportation routes, waypoints, and geographically locatable points of interest (POIs) selected by the user (103) along the travel route (123). The CARPS software (100) permits user selection of specified POI types within a user-defined region of interest and user selection of particular POIs from the selected types within the region of interest. The CARPS software (100) is constructed to present a user-customized travel log for preview.

French Abstract:

Systeme d'etablissement d'itineraire et de positionnement assiste par ordinateur (CARPS) qui determine un itineraire (123) le long de points de cheminement selectionnes (124) comportant un point de depart et un point de destination et des points de cheminement intermediaires. Les points de cheminement selectionnes (124) peuvent etre telecharges en amont ou en aval depuis divers dispositifs de geocodage qui utilisent le GPS. Une base de donnees de CARPS comporte des informations de voyage selectionnees parmi toute une gamme de sources multimedias sur les itineraires de transport, les points de cheminement et les points presentant un interet geographiquement localisables selectionnes par l'utilisateur (103) le long de l'itineraire (123). Le logiciel (100) de CARPS permet a l'utilisateur de selectionner des types specifiques de points presentant un interet a l'interieur d'une region presentant un interet definie par ledit utilisateur et de selectionner des points particuliers presentant un interet a partir des types choisis a l'interieur de la region presentant un interet. Le logiciel (100) de CARPS est concu pour presenter un journal de voyage adapte a l'utilisateur et lui permettant de visualiser l'itineraire.

Set   Items   Description

S1   2714871   S (MAP OR MAPS OR MAPP? OR (CARTOGRAPH? OR GEOGRAPH?)(2N)(CHART? OR LOCATOR? ? OR NAVIGATOR? ? OR DIAGRAM? ?) OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)

S2   9929   S S1 (3N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET? ? OR FILE? ? OR TABLE? ?) OR DB OR (ORGANI?ED()COLLECTION? ? OR RELATED OR INTERRELATED)(2N)(FILES OR INFORMATION OR DATA) OR INFORMATION(N)MANAGEMENT OR SIMS OR (CENTRAL? OR PERSISTENT)(2N)STORAGE OR KNOWLEDGEBASE? ?)

S3   300305   S GIS OR GPS OR GLOBAL()POSITION? OR (GLOBAL OR SATELLITE? ?)()LOCAT??? OR GLONASS OR POSITION()(DATA OR INFORMATION) OR LONGITUDE OR LATITUDE OR ALTITUDE OR LORAN GEORGRAPHICAL()INFORMATION()SYSTEM

S4   3702180   S CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR BARYCENTER OR CENTER? ? OR CENTRE? OR CENTRAL? ?

S5   7187786   S GEOCOD? OR GEO()COD? OR DEMOGRAPH? OR CHARACTERI?ATION? ? OR DATA

S6   78925   S (VIRTUAL OR AUTOMAT?? OR COMPUTERI?ED OR INTELLIGENT)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR COMPONENT? ? OR POSITION? ? OR LOCATION? ? OR NUMBER? ? OR ZIP()CODE OR HOUS? OR HOME? OR STREET? ?)

S7   43275   S (PLURALITY OR GROUP??? OR MULTIPLE? OR SEVERAL OR TWO OR 2 OR PLURAL OR ANOTHER OR OTHER? ?)(2N)(RADIAL? ? OR RADII OR SPOKE? ? OR RAYS OR RAY OR GRID? ?)

S8   44468   S (USER? ? OR CLIENT? ? OR PATRON? ? OR CONSUMER? ? OR CUSTOMER? ?)(3N)(INPUT? OR (IN()PUT OR PUTS OR PUTTING) OR INFORMATION OR PROMPT? OR PROVOKE? OR EVOKE? OR CUE OR TRANSMI?)

S9   165544   S (OUTPUT? ? OR OUT()PUT? ? OR TRANSFER? ? OR TRANSMISSION? ? OR TRANSFER? OR CONVEY OR SHIFT? OR TRANSMIT? OR TRANSPORT? OR TRANSPOS? OR GENERAT? OR PRODUC? OR DEFIN? OR DEVELOP? OR DISPLAY? ?)(3N)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR RADIAL? ? OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)

S10   581861   S S4 AND S5

S11   980   S S2 AND S10

S12   183   S S11 AND S3

S13   4   S S12 AND S6

S14   1   S S13 NOT PY>1999

S15   91358   S S1 AND S10

S16   684   S S15 AND S6

S17   83   S S16 AND S3

S18   69   S S17 AND (MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR RADIAL? ? OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)

S19   38   S S18 NOT PY>1999

S20   30   RD (unique items)

S21   0   S ((GEOCOD? OR GEO()CODE)(S)(CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR BARYCENTER))(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))(S)((MAP OR MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)(5N)(CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?)(2N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()BASE? ?))

S22   0   S (GEOCOD? OR GEO()CODE)(S)(CENTROID? OR BARYCENTER) AND (VIRTUAL OR COMPUTERI?ED)(5N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR LOCATION? ? OR ZIP()CODE) AND ((MAP OR MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)(S)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()BASE? ?)) AND (CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?)

S23   0   S ((GEOCOD? OR GEO()CODE) OR (CENTROID? OR BARYCENTER)) AND ((VIRTUAL OR COMPUTERI?ED)(5N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR LOCATION? ? OR ZIP()CODE) AND ((MAP OR

MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)(S)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()BASE? ?)) AND (CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?))

S24   0 S ((GEOCOD? OR GEO()CODE) OR (CENTROID? OR BARYCENTER)) AND ((VIRTUAL OR COMPUTERI?ED)(5N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR LOCATION? ? OR ZIP()CODE) AND ((MAP OR MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?) AND (DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()BASE? ?)) AND (CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?))

S25   0 S ((GEOCOD? OR GEO()CODE) OR (CENTROID? OR BARYCENTER)) AND ((VIRTUAL OR COMPUTERI?ED)(5N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR LOCATION? ? OR ZIP()CODE) AND ((DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()BASE? ?)) AND (CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?))

S26   1 S ((GEOCOD? OR GEO()CODE) OR (CENTROID? OR BARYCENTER)) AND ((VIRTUAL OR COMPUTERI?ED)(5N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR LOCATION? ? OR ZIP()CODE) AND ((MAP OR MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)) AND (CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?))

S27   1 S (CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR BARYCENTER)(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))

S28   1 S S27 NOT (S14 OR S20 OR S26)

; show files

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14/3,K/1 (Item 1 from file: 6) **Links**
Fulltext available through: Check for PDF Download Availability and Purchase
NTIS
(c) 2007 NTIS, Intl Cpyrght All Rights Res. All rights reserved.1275889   **NTIS Accession Number: AD-A174**
260/0
Climatic Atlas of Icing Potential Over North America
(Summary rept)
Air Force Environmental Technical Applications Center, Scott AFB, IL.
Corporate Source Codes: 055060000; 400945
Report Number: USAFETAC/DS-86/001
Jan 86   129p

...temperature), can be derived. The Smith-Feddes Liquid Water Content (LWC) computer model uses combined **data** from the Air Force Global Weather **Central** Three-Dimensional Nephanalysis **Data** Base (3DNEPH) and the upper air Analysis **Data** Set for input. Output consists of percent frequency of occurrence of a liquid water content...
...was generated for three concentrations, three layers and for temperatures at or below freezing. This **data** was then manually converted into 117 monthly and annual maps showing percent frequency of occurrence...

Descriptors: *Ice formation; *Meteorological **data**; *Climate; Atmosphere models; Liquid phases; Water; Concentration(Composition); Meteorological charts; Geographical distribution; North america; Upper atmosphere; Cloud physics; Particle size; Atmospheric temperature; Freezing; Aircraft; Low elevation; Layers; **Altitude**; Spatial distribution; Earth atmosphere; **Computerized** simulation; **Data bases; Maps**

20/3,K/1 (Item 1 from file: 5) <u>Links</u>
 Fulltext available through: <u>USPTO Full Text Retrieval Options</u>
Biosis Previews(R)
14118207 **Biosis No.:** 199799752267
Geographic information systems: Their use in environmental epidemiologic research

Author: Vine Marilyn F (Reprint); Degnan Darrah; Hanchette Carol
Author Address: Dep. Epidemiol., CB No. 7400 McGavran-Greenberg Hall, Univ. North Carolina, Chapel Hill, NC 27599-7400, USA**USA

Abstract: Advances in geographic information system (GIS) technology, developed by geographers, provide new opportunities for environmental epidemiologists to study associations between environmental exposures and the spatial distribution of disease. A **GIS** is a powerful computer **mapping** and analysis technology capable of integrating large quantities of geographic (spatial) **data** as well as linking geographic with nongeographic **data** (e.g., **demographic** information, environmental exposure levels). In this paper we provide an overview of some of the capabilities and limitations of **GIS** technology; we illustrate, through practical examples, the use of several functions of a **GIS** including **automated address** matching, distance functions, buffer analysis, spatial query, and polygon overlay; we discuss methods and limitations of **address geocoding**, often **central** to the use of a **GIS** in environmental epidemiologic research; and we suggest ways to facilitate its use in future studies. Collaborative efforts between epidemiologists, biostatisticians, environmental scientists, **GIS** specialists, and medical geographers are needed to realize the full potential of **GIS** technology in environmental health research and may lead to innovative solutions to complex questions.

20/3,K/2 (Item 2 from file: 5) **Links**
  Fulltext available through: <u>USPTO Full Text Retrieval Options</u>
Biosis Previews(R)
13890765 **Biosis No.:** 199799524825
Use of immunization data and automated mapping techniques to target public health outreach programs

Author: Popovich Michael L; Tatham Brad
Author Address: Arizona Immunization Information System Project, Scientific Technologies Corporation, Tucson, AZ, USA**USA
Document Type: Article
Record Type: Abstract
Language: English
Use of immunization data and automated mapping techniques to target public health outreach programs

Abstract: ...Department of Health Services is implementing the Arizona State Immunization Information System (ASIIS). As immunization data are collected at the central registry, questions arise as to how to use this information to support immunization action plans... ...susceptible to this disease could be identified using the registry along with census and outbreak data. To accomplish this a geographical information system (GIS) product was integrated with ASIIS. Geographic representation of information allowed immunization coordinators to determine visually... ...hence susceptible to the disease. Because not all children were in the immunization registry, census data were used to identify the areas where the greatest number of children lived. This technical approach illustrated the need, value, and impact of integrating related data sources to support immunization initiatives. The visual aspect of a GIS display offered an enhanced understanding of the disease outbreak. This type of automated tool was...
DESCRIPTORS:
 Miscellaneous Terms: Concept Codes: ...AUTOMATED MAPPING TECHNIQUES... ...IMMUNIZATION DATA;

20/3,K/3 (Item 3 from file: 5) **Links**
  Fulltext available through: <u>USPTO Full Text Retrieval Options</u>
Biosis Previews(R)
12811191 **Biosis No.:** 199598279024
An approach to quantifying spatial components of exposure for ecological risk assessment

Author: Clifford Philip A (Reprint); Barchers Daniel E; Ludwig David F; Sielken Robert L; Klingensmith J Scott; Graham Richard V; Banton Marcy I
Author Address: EA Engineering Sci. Technol. Inc., 11019 McCormick Rd., Hunt Valley, MD 21031, USA**USA

Document Type: Article
Record Type: Abstract
Language: English

Abstract: Estimating ecological risks associated with contaminants in the environment requires accurate characterization of the exposure of organisms to potentially toxic materials. Because organisms integrate contaminant exposure over... ...actual exposures is a complex task. Quantification of spatial components of environmental exposure can utilize **computerized** Geographic **Information** Systems (GIS) as a **central** tool. The GIS was used to evaluate ecological risks to terrestrial receptors at a National Priorities List (NPL) site where dieldrin was one of the contaminants. The **GIS** was applied directly to estimating spatially weighted exposure concentrations within organisms' foraging, or exposure ranges. Moreover, GIS was also used for comparing exposure concentrations to "benchmark" concentrations and subsequent presentation of the... ...dimensional "risk-surface" format. The three-dimensional risk surfaces were then superimposed on site-specific **maps** to serve as effective visual representations of site-specific quantified ecological risks and, as such, provide an effective risk-management decision-making tool. As an integral part of this approach, **GIS** serves as an interactive tool for assessing the effectiveness of proposed remedial alternatives by facilitating...

20/3,K/4 (Item 4 from file: 5) <u>Links</u>
    Fulltext available through: <u>USPTO Full Text Retrieval Options</u>
Biosis Previews(R)

11782859 **Biosis No.:** 199395085125
Land use dynamics within an urbanizing non-metropolitan county in New York State (USA)

Author: Lagro James A Jr (Reprint); Degloria Stephen D
Author Address: Dep. Landscape Architecture, 25 Agriculture Hall, Univ. Wisconsin-Madison, Madison, WI 53706, USA**USA
Document Type: Article
Record Type: Abstract
Language: English

Abstract: Land use/land cover **data** for fifteen minor civil divisions (MCDs) in Ulster County, New York (USA) were interpreted from 1968 and 1985 aerial photographs. These **data** were combined with ancillary physiographic and **demographic data** as raster layers within a **computerized** geographic **information** system (GIS). Class to class changes in land use/land cover were quantified for a study area... ...and the ancillary variables were modeled in a series of weighted least squares regressions employing **data** spatially aggregated by general soil **map** unit (N = 44). Between 1968 and 1985, nearly one-third of the study area changed... ...land cover proportions of the soil units were population density, highway proximity, distance to urban **centers**, mean elevation, mean slope gradient, and soil suitability for farming and for urban development.
DESCRIPTORS:
Miscellaneous Terms: Concept Codes: ...LAND COVER **DATA**;

20/3,K/5 (Item 1 from file: 6) <u>Links</u>

NTIS Accession Number:
N20020080094/XAB
Mapping Van

Global Visions, Inc., Herndon, VA.
Corporate Source Codes: 888888888; ZT008477
Sponsor: National Aeronautics and Space Administration, Washington, DC.

1994 1p
Language: English
Journal Announcement: USGRDR0305; STAR4110
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)605-6900; and email at orders@ntis.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A01
Mapping Van
A NASA Center for the Commercial Development of Space (CCDS) - developed system for satellite mapping has been commercialized for the first time. Global Visions, Inc. maps an area while driving along a road in a sophisticated mapping van equipped with satellite signal receivers, video cameras and computer systems for collecting and storing mapping data. Data is fed into a computerized geographic information system (GIS). The resulting maps can be used for tax assessment purposes, emergency dispatch vehicles and fleet delivery companies as...
Descriptors: *Global positioning system; *Thematic mapping; *Trucks ; *Geographic information systems; Receivers; Data acquisition; Cameras

20/3,K/6 (Item 2 from file: 6) **Links**
NTIS Accession Number:
DE92011918
CHAWS user's guide: System description and standard operating procedures, Johnston Island JCAD Facility

Martins, S. A. ; Shinn, J. H.
Lawrence Livermore National Lab., CA.
Corporate Source Codes: 068147000; 9513035
Sponsor: Department of Energy, Washington, DC.
Report Number: UCRL-CR-105263
Jul 90 141p
Language: English
Journal Announcement: GRAI9221; ERA9242
Sponsored by Department of Energy, Washington, DC.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield,

VA, 22161, USA.
NTIS Prices: PC A07/MF A02
CHAWS user's guide: System description and standard operating procedures, Johnston Island JCAD Facility

The Chemical Hazard Warning System (CHAWS) is designed to collect meteorological data and to display, in real time, the dispersion of hazardous chemicals that may result from... ...and are used to calculate direction and hazard distance for the release. Based on these data, arrows depicting the release direction and distance traveled are graphically displayed on a computer screen showing a site map of the facility. The objectives of CHAWS are as follows: to determine the trajectory of the center of the mass of released material from the measured wind field; to calculate the dispersion... ...the mixing zone by measurement of the inversion height and wind profiles up to an altitude of about 1 km at sites that have SODAR units installed; to archive meteorological data for potential use in climatological descriptions for emergency planning; to archive air-quality data for preparation of compliance reports; to provide access to the data for near real time hazard analysis purposes.
Descriptors: *Chemical Effluents; *Computerized Control Systems; *Data Processing; Computer Graphics; Computer Codes; Computer Networks; Computer Program Documentation; Data Acquisition; Data Transmission; Education; Emission; Flowsheets; Hazardous Materials; Installation; Manuals ; Measuring Instruments; Meteorology; Operation; Real Time Systems...

20/3,K/7 (Item 3 from file: 6) **Links**
    Fulltext available through: Check for PDF Download Availability and Purchase
NTIS
Integrating NASA's Land Analysis System (Las) Image Processing Software with an Appropriate Geographic Information System (Gis): A Review of Candidates in the Public Domain
(Abstract Only)
Rochon, G. L.
Dillard Univ., New Orleans, LA. Urban Studies and Public Policy Inst.
Corporate Source Codes: 101785001; DW192114
Sponsor: National Aeronautics and Space Administration, Washington, DC.

Sep 89 1p
Language: English
Journal Announcement: GRAI9121; STAR2917
In Maryland Univ., the 1989 NASA-Asee Summer Faculty Fellowship Program in Aeronautics and Research p 37 (See N91-25914 17-82).
NTIS Prices: (Order as N91-25914/3, PC A04/MF A01)
...NASA's Land Analysis System (Las) Image Processing Software with an Appropriate Geographic Information System (Gis): A Review of Candidates in the Public Domain
...user requirements analysis (URA) was undertaken to determine and appropriate public domain Geographic Information System (GIS) software package for potential integration with NASA's LAS (Land Analysis System) 5.0 image... ...underscored due to the perceived need for source code access and flexibility in tailoring the GIS system to the needs of a heterogenous group of end-users, and to specific constraints...
...Transportable Applications Executive (TAE). Subsequently, a review was conducted of a variety of public domain GIS candidates, including GRASS 3.0, MOSS, IEMIS, and two university-based packages, IDRISI

and KBGIS. The review method was a modified version of the GIS evaluation process, development by the Federal Interagency Coordinating Committee on Digital Cartography. One IEMIS-derivative product, the ALBE (AirLand Battlefield Environment) GIS, emerged as the most promising candidate for integration with LAS. IEMIS (Integrated Emergency Management Information System) was developed by the Federal Emergency Management Agency (FEMA). ALBE GIS is currently under development at the Pacific Northwest Laboratory under contract with the U.S... ...Engineering Topographic Laboratory (ETL). Accordingly, recommendations are offered with respect to a potential LAS/ALBE GIS linkage and with respect to further system enhancements, including coordination with the development of the Spatial Analysis and Modeling System (SAMS) GIS in Goddard's IDM (Intelligent Data Management) developments in Goddard's National Space Science Data Center.

Descriptors: *Computer aided mapping; *Data management; *Geographic information systems; *Image processing; *User requirements; Grasses; Management information systems; Applications programs (Computers...

20/3,K/8 (Item 4 from file: 6) **Links**
  Fulltext available through: Check for PDF Download Availability and Purchase
NTIS

Climatic Atlas of Icing Potential Over North America
(Summary rept)
Air Force Environmental Technical Applications Center, Scott AFB, IL.
Corporate Source Codes: 055060000; 400945
Report Number: USAFETAC/DS-86/001
Jan 86   129p
Language: English
Journal Announcement: GRAI8705
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A07/MF A01
...temperature), can be derived. The Smith-Feddes Liquid Water Content (LWC) computer model uses combined **data** from the Air Force Global Weather **Central** Three-Dimensional Nephanalysis **Data** Base (3DNEPH) and the upper air Analysis **Data** Set for input. Output consists of percent frequency of occurrence of a liquid water content... ...was generated for three concentrations, three layers and for temperatures at or below freezing. This **data** was then manually converted into 117 monthly and annual **maps** showing percent frequency of occurrence for potential icing conditions.

Descriptors: *Ice formation; *Meteorological **data**; *Climate; Atmosphere models; Liquid phases; Water; Concentration(Composition); Meteorological **charts**; **Geographical** distribution; North america; Upper atmosphere; Cloud physics; Particle size; Atmospheric temperature; Freezing ; Aircraft; Low elevation; Layers; **Altitude**; Spatial distribution; Earth atmosphere; **Computerized** simulation; **Data** bases; **Maps**

20/3,K/9 (Item 5 from file: 6) **Links**
  Fulltext available through: Check for PDF Download Availability and Purchase
NTIS

Strategies for Associating Data and Location in a Geographic Information System
(Master's thesis)
Waiton, R. G.
Air Force Inst. of Tech., Wright-Patterson AFB, OH.
Corporate Source Codes: 000805000; 012200
Report Number: AFIT/CI/NR-85-78T
1985   120p
Language: English   Document Type: Thesis
Journal Announcement: GRAI8524
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A06/MF A01
Strategies for Associating Data and Location in a Geographic Information System

Much of the existing work in the area of Geographic Information Systems (GIS) treats spatial objects, e.g. points, lines, and regions, as the primary entities of interest. In that approach, descriptive information is associated directly with each of these data items. This paper explores the feasibility of implementing an alternative design which uses Location Data Sets and Location Predicates as the basic entities managed by a Location Data Management System (LDMS). A major advantage of the proposed approach is its suitability for automatic enforcement of data consistency across multi-scale geographic entities. The central idea of the Location Data Set approach is that spatial data should be directly associated with locations rather than named regions or points. The relationships between geographic entities and data values may then be derived through the intermediate relationship of shared location. It is envisioned that each type of data which is distributive in nature would be stored in a separate set. Data values associated with conventional points, lines, and regions would then be merely restrictions on these global data sets. This is similar to the way in which the external views of a database represent a subsetting of the global data. The paper includes a survey of fifteen selected GIS implementations and existing work relevant to identified implementation obstacles. (Author)
Descriptors: *Data management; *Position(Location); Approach; Automatic; Consistency; Data bases; Geography; Global; Information systems; Sharing; Spatial distribution; Value; Maps; Computer applications

Identifiers: *Geographic information systems; *LDMS(Location Data Management Systems); *Location Data . Management Systems; NTISDODXA

20/3,K/10 (Item 6 from file: 6) **Links**
   Fulltext available through: Check for PDF Download Availability and Purchase
NTIS
State Plane Coordinates by Automatic Data Processing

Claire, C. N.
Coast and Geodetic Survey, Rockville, Md.
Report Number: C/GS-PUB-62-4; NOAA-78011605
1973   74p

State Plane Coordinates by Automatic Data Processing
This publication contains tables and formulas for computing state plane coordinates by electronic data processing equipment. There are four different types of projection used in the plane coordinate systems...
...the radii of the parallels for the Lambert projection and values of Y on the central meridian for the parallels on the transverse Mercator projection. These are tabulated at intervals of one minute of latitude. In Alaska, the published plane coordinates for 2 1/2-minute intersections of meridians and...
Descriptors: *Data processing; *Coordinates; *Map projection; Automation

20/3,K/11 (Item 7 from file: 6) **Links**
  Fulltext available through: Check for PDF Download Availability and Purchase
NTIS
NTIS Accession Number: E73-10347/XAB
Central Atlantic Regional Ecological Test Site (Carets): A Prototype Regional Environmental Information System

Alexander, R. H.
Geological Survey, Washington, D.C.
Corporate Source Codes: 152350
Report Number: NASA-CR-130806
1 Jan 73   60p
Central Atlantic Regional Ecological Test Site (Carets): A Prototype Regional Environmental Information System
...design for the USGS/CARETS demonstration project; (2) preparation of photo-mosaics and land use maps at a scale of 1:100,000 for entire area; (3) demonstration of the feasibility of extracting several categories of land use information from ERTS-1 MSS data for a portion of the CARETS region; (4) demonstration of the feasibility of detecting some... ...of the feasibility of attaching environmental impact significance to the remote sensor-derived land use data; (6) delivery of land use information derived from high altitude aircraft data to the Maryland state planning agency for use in its statewide land use inventory; (7... ...and services provided by investigation; and (8) determination of the viability of setting up a computerized geographic information system as part of the CARETS investigation, to facilitate handling of sensor-derived land use data in a variety of formats to suit user requirements.
Descriptors: Imagery; Mapping; Land use; Central Atlantic Region(US); Environment effects; Ecology; Earth resources program; Data bases; Information systems; Regional planning

20/3,K/12 (Item 8 from file: 6) <u>Links</u>
   Fulltext available through: <u>Check for PDF Download Availability and Purchase</u>
NTIS

The NASA ERTS System and Potential Coverage of Canada

Chipman, R. O.
Department of Energy, Mines and Resources, Ottawa (Ontario). Program Planning Office.

1971 . 6p
...The satellite will be placed in a circular, near polar sun-synchronous orbit at an **altitude** of 910 km and will carry four sensors, three return beam vidicon (RBV) cameras, identical... ...directly to a ground receiving station where it will be recorded and sent to a **central data** handling **center** to be transformed into hard copy (photography). Corrections to make the imagery conform geometrically with existing **maps** will then be made and the images, in color or black and white, will be sent directly to users or to specialized **data** interpretation **centres**. The satellite will also have the capability of relaying **data** from remote **automatic** ground platforms, such as stream or tide gauges, etc., to the receiving station on a...

20/3,K/13 (Item 1 from file: 50) <u>Links</u>
CAB ABSTRACTS
0007421314   **CAB Accession Number:** 19971911206
Application of soil survey attribute data to GIS pollution assessment models.

Nielsen, R. D.; Bigler, R. J.; Sobecki, T.; Lytle, D. J.
National Soil Survey Centre, National Resources Conservation Service, Lincoln, Nebraska, USA.
Applications of **GIS** to the modeling of non-point source pollutants in the vadose zone.
Conference Title: Applications of GIS to the modeling of non-point source pollutants in the vadose zone.
p.175-183
Application of soil survey attribute data to GIS pollution assessment models.
Applications of GIS to the modeling of non-point source pollutants in the vadose zone.
The application of GIS to environmental modelling depends on the quality and availability of environmental data. Environmental data include soil and soil-landscape attributes such as organic matter content and percentage of slope, respectively. These data are available in hardcopy as soil survey reports or in the

following digital formats: SSURGO... ... pollutant transport or fate. The USDA-NRCS (Natural Resources Conservation Service)-NSSC (National Soil Survey Centre) is attacking this problem on two fronts. The first is the implementation of NASIS (National Soil Information System), which will improve delivery of soil and soil landscape-related data to the public and private sectors. NASIS will provide the users of GIS and other modelling techniques with primary soil data , such as transect and pedon observations. NASIS also will provide users with normalized primary soil survey data, such as aggregated field data , that are specific to the geographic extent of any given soil mapping unit within a soil survey area. The second is improving the compatibility between soil attribute data and computerized models. This issue is being addressed by making existing soil database attributes and structures available...
Identifiers: Applications of GIS to the modeling of non-point source pollutants in the vadose zone

20/3,K/14 (Item 2 from file: 50) **Links**
    Fulltext available through: <u>USPTO Full Text Retrieval Options</u>
CAB ABSTRACTS
0006679777 **CAB Accession Number:** 19931977353
Nonpoint-pollution model sensitivity to grid-cell size.

Vieux, B. E.; Needham, S.
School of Civ. Engrg. and Envir. Sci., Univ. of Oklahoma, Norman, OK 73019, USA.
Journal of Water Resources Planning and Management vol. 119 (2): p.141-157
Publication Year: 1993
ISSN: 0733-9496
Language: English   **Record Type:** Abstract
Document Type: Journal article
Nonpoint-pollution model sensitivity to grid-cell size.
... of chemicals, sediment, and nutrients that degrade water quality. Geographical information systems (GISs) are computer-automated, data management systems simplifying the input, organization, analysis, and mapping of spatial information. Because nonpoint-pollution models simulate distributed watershed basin processes, a heterogeneous and complex land surface must be divided into computational elements such as grid cells. Model parameters can be derived from each grid cell directly from maps using GIS . Cell size selection, if arbitrarily determined yields ambiguous if not erroneous results. This paper investigates... ...input parameters for the nonpoint-pollution model, Agricultural Nonpoint Source Pollution Model (AGNPS), using a GIS for a small research watershed in Minnesota, USA. As model grid-cell size increases, stream meanders are short-circuited. The shortened stream lengths caused modelled sediment...
Broader Terms: ...West North Central States of USA... ...North Central States of USA...

20/3,K/15 (Item 1 from file: 57) **Links**
    Fulltext available through: <u>USPTO Full Text Retrieval Options</u>
Electronics & Communications Abstracts
0000112491   IP Accession No: 2742317
GPS-based vessel tracking.

Swale, S L Trimble Navigation Ltd.

GPS-based vessel tracking.

Abstract:
High-accuracy global positioning system (GPS) equipment coupled with modern data communications and digital map displays offers an approach known as automated dependent surveillance (ADS) to enhance and extend vessel traffic services (VTS) coverage. GPS-based automated dependent surveillance and the more traditional radar-based independent surveillance systems complement each other as mutually reinforcing technologies for enhanced VTS coverage. A properly integrated GPS receiver can provide both vessel navigation for the crew and automatic position reporting for VTS applications. With self-correcting real-time differential GPS (DGPS), accuracies on the order of 5 meters are typically reported. The U.S. Coast Guard Research & Development Center in Groton, Connecticut, has found that real-time DGPS is so reliable that it is...

Descriptors: Navigation; Tracking; Communication systems; Technology; Position fixing; Global positioning system
Subj Catg: ...GPS)

20/3,K/16 (Item 1 from file: 87) **Links**
TULSA (Petroleum Abs)
0001622657 **Petroleum Abstract No: 668075**
   CHEVRON'S USE OF ESRI'S [ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE] SPATIAL DATABASE ENGINE (SDE) TO STORE SEISMIC LOCATIONS, WELLS, AND CULTURAL DATA
RATHBUN, M L; WALLY, W N
CHEVRON PETROL TECHNOL CO
5TH PENNWELL ET AL. GEOGR. INFORM. SYST. FOR THE OIL & GAS IND. INT. CONF. (Houston, 9/17-19/96) PROC. 1996. (8 pp)
1996
Language: ENGLISH
   ...ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE] SPATIAL DATABASE ENGINE (SDE) TO STORE SEISMIC LOCATIONS, WELLS, AND CULTURAL DATA
Major Descriptors: COMPUTER STORAGE; COMPUTERIZED MAPPING; DATA; DATA PROCESSING; DATA STORAGE; DATABASE; GEOGRAPHIC DATA; INFORMATION RETRIEVAL SYST; INFORMATION SERVICE; INFORMATION STORAGE; MAPPING
Minor Descriptors: ...CAPACITY; CHANGE; CHART; CHEVRON PETROL TECHNOL CO; COMPUTER GRAPHICS; COMPUTER NETWORK; COMPUTER PROGRAMING; CONTRACT;

CONTROL; DATA ACQUISITION; DATA IMPROVEMENT; DATA PRESENTATION; DATA RETRIEVAL SYSTEM; DESIGN; DESIGN CRITERIA; DETECTOR; ECONOMIC FACTOR; ENGINEERING; ENGLISH; ENVIRONMENTAL DATA; EVALUATION; FIELD DATA; FLOW CHART; GEOGRAPHY; GEOPHYSICAL DATA; GLOBAL POSITIONING SYSTEM; IMAGING; IMPROVEMENT; INSTRUMENT; INTERFACE; INTERNET; LEGAL CONSIDERATION; LICENSE; LOCATING; LOCATION; MAN MADE SATELLITE; MEETING... ...PERFORMANCE; PHYSICAL PROPERTY; PORTABILITY; PROGRAMING; PROTOTYPE; QUALITY CONTROL; REMOTE SENSING; REMOTE SENSOR; SCALE UP; SEISMIC DATA; SOFTWARE; SPECIFICATION; SUPPLEMENTAL TECHNOLOGY; SYSTEM (ASSEMBLAGE); TECHNOLOGY; WELL; WELL DATA

20/3,K/17 (Item 2 from file: 87) <u>Links</u>
TULSA (Petroleum Abs)
0001546540 **Petroleum Abstract No:** 591958
 INTEGRATION OF GEOLOGIC DATA AND HIGH RESOLUTION RUSSIAN SATELLITE PHOTOGRAPHY FOR GIS APPLICATIONS COVERING THE TIMAN PECHORA BASIN, RUSSIA
GRESHISHEV, A; LONGORIA, A; WALLACE, B; ZHIVICHIN, V
TOBIN INTERNATIONAL INC
10TH ENVIRON. RES. INST. MICH. GEOL. REMOTE SENSING THEMATIC CONF. (San Antonio, 5/9-12/94)
PROC. v.1, pp.1-474 - 1-479, 1994. (ISSN 1067-0106)
1994
ISSN: 10670106
Language: ENGLISH
 INTEGRATION OF GEOLOGIC DATA AND HIGH RESOLUTION RUSSIAN SATELLITE PHOTOGRAPHY FOR GIS APPLICATIONS COVERING THE TIMAN PECHORA BASIN, RUSSIA
Major Descriptors: AERIAL PHOTOGRAPHY; DATA PROCESSING; EURASIA; EUROPE; GEOGRAPHIC INFORMATN SYST; GEOLOGIC DATA PROCESSING; INFORMATION SERVICE; PHOTOGRAPHY; REMOTE SENSING; TIMAN PECHORA AREA
Minor Descriptors: ACCURACY; AERIAL MAPPING; AERIAL SURVEY; CALIBRATION; CHANGE; COMPUTER; COMPUTER ASSISTED DESIGN; COMPUTER GRAPHICS; COMPUTERIZED MAPPING; CORRECTION; DATA; DATA ACQUISITION; DATA IMPROVEMENT; DATA PRESENTATION; DESIGN; DRAINAGE; DRAINAGE (SURFACE); ELEVATION; ELEVATION CORRECTION; ELEVATION SURVEYING; ENGINEERING; ENGLISH; GEOLOGIC MAPPING; GEOLOGY; GEOLOGY; GEOMORPHOLOGY; HEIGHT; HIGH ALTITUDE; HORIZONTAL SURVEYING; IMAGE ENHANCEMENT; IMAGING; IMPROVEMENT; INTERACTIVE INTERPRETATION; INTERPRETATION; LEAST SQUARES; LOCATING; MAN MADE SATELLITE; MAP; MAPPING; MATHEMATICAL ANALYSIS; MATHEMATICS; MEETING PAPER TEXT; MICROCOMPUTER; OIL AND GAS FIELDS; OIL AND GAS MAP; POSITIONING; REFERENCE DATUM; RESOLUTION; STANDARDIZATION; STATISTICAL ANALYSIS; STREAM PATTERN; SURFACE GEOLOGY; SURVEY (DATA); SURVEYING; TERRAIN CORRECTION; TOPOGRAPHIC MAPPING; TOPOGRAPHIC SURVEYING; TRIANGULATION; VECTOR ANALYSIS; WELL SURVEYING

20/3,K/18 (Item 3 from file: 87) <u>Links</u>
TULSA (Petroleum Abs)

0001391040 **Petroleum Abstract No: 436458**
  **REMOVING TAG DISTORTIONS IN SINGLE PICTURE PROCESS - A FORTRAN PROGRAM
SYSTEM FOR SMALL COMPUTERS [ENTZERRUNG VON LUFTBILDERN IM EINBILDVERFAHREN
- EIN FORTRAN-PROGRAMMSYSTEM FUER KLEINE RECHENANLAGEN]**
LINDSTEDT, H J; ROGALLA, R
GEOL JAHRBUCH HESSEN NO 115, PP 395-403, 1987 (ISSN 03414027; 7 REFS; IN GERMAN)
1987
Language: GERMAN
  **REMOVING TAG DISTORTIONS IN SINGLE PICTURE PROCESS - A FORTRAN PROGRAM
SYSTEM FOR SMALL COMPUTERS [ENTZERRUNG VON LUFTBILDERN...**
Primary Descriptor: GEOLOGIC DATA PROCESSING
Major Descriptors: AERIAL PHOTOGRAPHY; CODING; COMPUTER PROGRAM LANGUAGE;
COMPUTER PROGRAMING; DATA PROCESSING; GEOLOGIC INTERPRETATION; GEOLOGY;
INTERPRETATION; PHOTOGEOLOGY; PHOTOGRAPHY; PROGRAMING
Minor Descriptors: AERIAL MAP; AERIAL MAPPING; AERIAL PHOTOGRAPH; CHART;
COMPUTER; COMPUTER GRAPHICS; COMPUTERIZED MAPPING; DATA; DATA
PRESENTATION; DIAGRAM; EQUATION; GEOLOGIC DATA; GEOLOGIC STRUCTURE;
GEOLOGY; GERMAN; MAP; MAPPING; MATHEMATICAL GEOLOGY; MATHEMATICS;
MINICOMPUTER; ORIENTATION; PHOTOGRAPH; PROJECTION; REMOTE SENSING

 20/3,K/19 (Item 4 from file: 87) **Links**
TULSA (Petroleum Abs)
0001336575 **Petroleum Abstract No: 381993**
  **CENTRAL AND EASTERN UNITED STATES - BASIC DATA FOR THERMAL SPRINGS AND WELLS
AS RECORDED IN GEOTHERM**
BLISS, J D
US GEOLOGICAL SURVEY
US GEOL SURV OPEN-FILE REP NO 83-440, 2 PL MICROFICHE (87 PP), JUNE 1983
1983
Language: ENGLISH
  **CENTRAL AND EASTERN UNITED STATES - BASIC DATA FOR THERMAL SPRINGS AND WELLS
AS RECORDED IN GEOTHERM**
Major Descriptors: DATA; DATA RETRIEVAL SYSTEM; GEOPHYSICAL DATA; GEOTHERMAL
DATA; GEOTHERMAL WELL; INFORMATION SERVICE; MIDCONTINENT AREA; NORTH
AMERICA; SPRING (GEOLOGY); THERMAL SPRING; UNITED STATES; WELL
Minor Descriptors: ALTERNATIVE FUELS & ENERGY SOURCES; ALTERNATE ENERGY;
ANALYTICAL METHOD ; ARKANSAS; BIBLIOGRAPHY; CHEMISTRY; COMPUTER STORAGE;
DATA PROCESSING; DATA STORAGE; ENGLISH; GEOCHEMICAL DATA; GEORGIA;
GEOTHERMAL ENERGY; GOVERNMENT REPORT; HOT WATER; HYDROCHEMISTRY;
HYDROTHERMAL FLUID; INFORMATION RETRIEVAL SYST; INFORMATION STORAGE;
LATITUDE; LOCATION; LONGITUDE; MAP GRID SYSTEM; MAPPING^MAS; MASSACHUSETTS;
NEBRASKA; NEW YORK; NORTH CAROLINA; PENNSYLVANIA; POWER; SOUTH DAKOTA;
SUBSURFACE TEMPERATURE; TABLE (DATA); TEMPERATURE; TESTING; US GEOLOGICAL
SURVEY; VIRGINIA; WATER; WATER (SUBSURFACE); WATER ANALYSIS; WEST VIRGINIA;

20/3,K/20 (Item 5 from file: 87) **Links**
TULSA (Petroleum Abs)
(c)2007 The University of Tulsa. All rights reserved.
0001154165 **Petroleum Abstract No:** 199583
   THE INTERPRETATION AND USE OF FALSE-COLOUR INFRA-RED AND TRUE COLOUR PHOTOGRAPHY OF PART OF ARGENTINA OBTAINED BY SKYLARK EARTH RESOURCES ROCKETS
BRAY, C J; DRENNAN, D S H; GALLOWAY, I R; HARDY, J R; JUSTICE, C O; OWEN-JONES, E S; SAVIGEAR, R A G; TOWNSHEND, J R G
9TH INT MICH ENVIRON RES INST REMOTE SENSING OF ENVIRON SYMP PROC V 2, PP 1475-1496, 1974
1974
Language: ENGLISH
Major Descriptors: AERIAL PHOTOGRAPHY; COLOR; ELECTROMAGNETIC WAVE; GEOLOGIC MAPPING; INFRARED RADIATION; **MAPPING**; OPTICAL PROPERTY; PHOTOGRAPHY; PHYSICAL PROPERTY; WAVE
Minor Descriptors: ARGENTINA; BLOCK DIAGRAM; CHART; COST; **DATA** PROCESSING; DIAGRAM; ECONOMIC FACTOR; ENGLISH; FLORA; FLOW CHART; GEOLOGY; GEOLOGY; GEOMORPHOLOGY; MAN MADE SATELLITE; NATURAL...

20/3,K/21 (Item 1 from file: 99) **Links**
   Fulltext available through: USPTO Full Text Retrieval Options
Wilson Appl. Sci & Tech Abs
(c) 2007 The HW Wilson Co. All rights reserved.
1260343 **H.W. Wilson Record Number:** BAST95056109
GIS: smart, very smart

Straate, Marc Ver ;
ENR v. 235 (Sept. 25 '95 supp) p. 6-7+
Document Type: Feature Article **ISSN:** 0891-9526
GIS: smart, very smart

Abstract: Geographic Information Systems (GIS) technology is generating considerable interest among transportation professionals. GIS is a computer-based software and data technology. It runs on desktop systems and larger computers and can integrate and display various types of information, such as a CAD map or a scanned aerial photograph. Transportation departments are beginning to realize the potential applications of GIS in enhancing efficiency in existing operations, in decision-support, and in adding intelligence to transportation planning, design, and management. Other applications of GIS include Intelligent Transportation System support, Intermodal Surface Transportation Efficiency Act business systems modeling, congestion management and traffic operations center support, Advanced Customer Information Systems, automated routing and permitting, and route analysis, mapping, and management.

20/3,K/22 (Item 1 from file: 105) <u>Links</u>
AESIS
125502   **AESIS Accession Number: 94-10151**
SA_STRAT: Handbook Ver. 1: a users' guide to the South Australian stratigraphic names database and GIS search code and map symbol system.

Gatehouse, C G; Cowley, W M
South Australia. Department of Mines and Energy. Unpublished Report RB 94/013, April 1994 85 pages; 2 appx, 5 fig, 5 ref
Document Type: Reports, departmental unpublished
...STRAT: Handbook Ver. 1: a users' guide to the South Australian stratigraphic names database and GIS search code and map symbol system.

Abstract: ...STRAT is the Department's computerised data base of stratigraphic units and thus is central to other data bases such as those storing digital maps, drillhole data, rock sample information and field observations. Report describes the data fields used in SA... ...STRAT and the development of the GIS search code and map symbol coding system.
Descriptors: ...Data bases... ...Map legend

20/3,K/23 (Item 1 from file: 144) <u>Links</u>
Pascal

13566838   PASCAL No.: 98-0268947

Assessment of ground water resources based on G. I. S. in **Central** Greece
   Engineering Geology and the Environment
   (La geologie de l'ingenieur et l'environnement)

   MARINOS P G; PERLEROS V K; ALEXIADOU M H; PANAGOPOULOS A T;
VALADAKI-PLESSA K; PLESSAS S T
   MARINOS Paul G, ed
   National Technical University of Athens, Greece; Geoskopio Ltd, Athens,
Greece; Ministry of Environment Physical planning and public works, Greece
   National Technical University of Athens, Greece
   International Association of Engineering Geology. Greek National Group,
International.
   International Symposium on Engineering Geology and the Environment (
Athens GRC) 1997-06-03
   1997, 2 1363-1370

   Publisher: A.A. Balkema, Rotterdam
   Language: English

Assessment of ground water resources based on G. I. S. in **Central** Greece
    ... of National Technical University at Athens (NTUA) for the development of a Geographical Information System (**GIS**) with the objective or recording, processing and analysing all the hydrogeological **data** in connection with the hydrological basins of **Central** Greece. The development of **GIS** allows a prompt and more accurate draw and management of the current hydrogeological **data** continuous updating of the Geographical database and the ability to process by **automatic** means all **data** and present them in master plan theme **maps**

20/3,K/24 (Item 2 from file: 144) <u>**Links**</u>
Pascal

   13467562   PASCAL No.: 98-0164328

   Integrated studies of Mexico with gravity, magnetic, and **GIS** database
   Mexico and **Central** America

   AIKEN Carlos L V; BALDE Mamadou; XU Xueming; ABDEL-SALAM
Mohammed G; dE lA FUENTE Auricio F; MENA Manuel
   BERTAGNE Allen
   University of Texas at Dallas, Dallas, TX, United States

   Integrated studies of Mexico with gravity, magnetic, and **GIS** database
   Mexico and **Central** America
English Descriptors: Bouguer anomalies; crust; **data** bases; gravity
   anomalies; gravity methods; information systems; magnetic methods; Mexico
   ; models; gravity surveys; tectonophysics; **automatic data**
   processing; **data** processing; geographic information systems;
   Mapping; -

13079088   PASCAL No.: 97-0370644

Baseflow **mapping** of the south-**central** and southeastern
United States using **GIS**

MUTTIAH Ranjan S; SRINIVASAN R; ALLEN Peter M; ARNOLD Jeffrey
G
Texas A&M University System, Temple, TX, United States
1995 ASA-CSSA-SSSA Bouyoucos conference (Riverside, CA USA) 1995-05-01
Journal: SSSA Spec. Publ., 1996
, 48 247-257
Language: English

Baseflow **mapping** of the south-**central** and southeastern
United States using **GIS**

English Descriptors: aquifers; fluid dynamics; information systems; land
  use; pollutants; pollution; three-dimensional models; unsaturated zone;
  hydrogeology; **automatic data** processing; environmental
  geology; Aquifer vulnerability; DRASTIC; geographic information systems;
  nonpoint sources; sensitivity analysis; shallow aquifers

12686609   PASCAL No.: 96-0387694

Thematic **mapping, data mapping,** and **geocoding**
techniques for analyzing library and information **center data**

CLARK P M
St. John's University, Division of Library and Information Science,
Jamàica, New York, United States
Association for Library and Information Science Education, State College,

PA 16803, United States.
    Association for Library and Information Science Education ALISE. Annual
Conference (Philadelphia, Pennsylvania USA) 1995-01-31
    Journal: Journal of education for library and information
science, 1995, 36
(4) 330-341
    Language: English

    Thematic **mapping, data mapping,** and **geocoding**
techniques for analyzing library and information **center data**
    Methodologies   based   on   **computerized**   geographical
information systems (GIS) are appearing with regularity in
the library and information science literature and conference proceedings.
This   article   illustrates   and   discusses   several   specific   **GIS**
techniques available to LIS researchers, administrators, planners, and
instructors. These techniques include thematic **mapping** (shading,
coloring, or using various sized symbols to indicate amount and type),
data maps (positioning actual **data** on **maps**
 rather than on tables), and **geocoding** (positioning addresses
obtained from various reference sources to specific points on a **map**
). **Maps** are used to illustrate the techniques recommended for more
widespread use among library and information...

English Descriptors: Librarianship; Library; Management; Planning; Tool;
    Computer aid; Cartographic representation; **Data** processing;
    Software; Example; Geographic information system

 20/3,K/27 (Item 1 from file: 266) <u>Links</u>
FEDRIP

00531392
Identifying No.: 0197609   **Agency Code:** AGRIC
Advancing Precision Agricultural Systems Through Automation, Sensing, Control, and Information Systems

 integrated pest management
Associate Investigators: Pierce, F. J.; Perry, E. M.; Brunner, J.; Clary, C.; Davenport, J. R.; Grove, G. G.; Jones, V. P.; Stevens, R. G.; Pitts, M.; Tarara, J.; Whiting, M.
Performing Org.: WASHINGTON STATE UNIVERSITY, **CENTER** FOR PRECISION AGRIC SYSTEM , PULLMAN , WASHINGTON 99164
Performing Org.: ...**CENTER** FOR PRECISION AGRIC SYSTEM
Summary: ...objectives of this research: 1) Develop and exploit enabling technologies for remotely gathering real-time **data** on growing conditions, crop status, and field operations in regional or localized sensor networks; 2...

...1) efficacy and efficiency of application of crop protection chemicals and bioregulators, (2) algorithms that **guide** automated variable input application, (3) impact of autonomous sprayers on environmental quality, and (4) worker... ...for automated sensing, we will also develop and evaluate on-board sensors for real-time **mapping** of plant and soil conditions in association with Objective 1. The **data** logger/telemetry systems developed under Objective 1 will be further developed so that they can... ...systems and wind machines. For objective 3; we will develop software needed to integrate the **data** streams generated from the **data** networks and **automated** systems. The **data** will be diverse in nature, representing both spatial and temporal ranges. For a given technology... ...be developed by working with industry to understand real world applications. To support the spatial **data** analysis needed for research, we will assemble a collection of commercial software for

image processing, **GIS**, and geostatistical analysis including a library of spatial **data** including satellite and airborne imagery over research areas. Other spatial **data** will be assembled such as digital elevation models (DEMs), field and sample georeferencing, soils **data**, and crop inventories. The implementation approach is to build on existing research programs, and form... ...faculty representing many disciplines including plant pathology, soil fertility, plant/water relations, statistics, remote sensing/**GIS**, and micrometeorology.PR received permanent operations funding from the Washingto

Descriptors: sensors; telemetry; control systems; monitoring systems; robotics; automation; remote sensing; information systems; networks; modeling; **mapping**; weather; environment; computers; irrigation; water management; pest management; frost protection; precision farming; agricultural engineering; real...

20/3,K/28 (Item 2 from file: 266) <u>**Links**</u>
FEDRIP
00530896
Identifying No.: 0197085   **Agency Code:** AGRIC
Develop methods for sampling and integrating inventory data with remotely sensed and other spatial information.

  automated data extraction |x nomatch
Associate Investigators: Wilson, M. J.; Moisen, G. G.; Frescino, T. S.; Blackard, J. A.; Patterson, P. L.; Williams, M. S.
Performing Org.: ROCKY MOUNTAIN RESEARCH STATION, RMRS FORESTRY SCIENCES LAB, OGDEN UT , FORT COLLINS , COLORADO   80526-2098
Develop methods for sampling and integrating inventory data with remotely sensed and other spatial information.
Summary: There is a need to develop innovative methods for sampling and integrating inventory data with remotely sensed information to improve the quality and efficiency of inventory analysis and reporting... **...improve the efficiency of our annual inventory products, and expand our product line to include maps and dynamic analyses. Over the next 5 years, studies under this problem will result in... ...resource inventory design and measurements; more**
  efficient means to quantify population totals within an annual data collection system; new FIA map products of known quality and utility; and automated data extraction, visualization, and analysis capabilities.PR analyses, and improve the efficiency of our annual inventory products, based on our research in the fields of remote sensing, GIS and applied statistics. Publications this year advance vegetation mapping techniques in support of nationwide mapping efforts. Other projects involve the use of FIA-derived maps for wildlife habitat modeling, small area estimation in forests affected by wildfire, theoretical frameworks for confidence intervals, and extensions to the

use of large-scale GPS controlled aerial photos for improving efficiency in data collection techniques. Also addressed were perpendicular sampling methods, sampling and analysis methods for coarse woody debris, and adoption of moderate resolution maps into traditional forest inventory reporting. Work is being conducted with the Remote Sensing Applications Center to complete moderate resolution maps of forest attributes nationwide, improve inventory efficiency with large-scale aerial photography, and deliver web...
...areas. Research with Utah State University is on going to test utility of FIA-generated maps for wildlife habitat

applications. Nonparametric model-assisted survey estimation techniques are being expanded to maximize information from ancillary remotely-sensed data through collaborative research with Colorado State University and Iowa State University. Work is also continuing... ...and regional scales. Cooperative efforts continue with the LANDFIRE project in Missoula and the EROS data Center to map forest cover type and fire risk regionally and nationally. Collaborative work is underway with NASA...
Progress Report Summary: ...November 19-21, 2002). NC-GTR-252. U.S.Department of Agriculture, Forest Service, North Central ResearchStation, St. Paul, MN. p 209-214.EDWARDS, T. C., JR.; MOISEN, G. G.; FRESCINO, T. S.; and SCHULTZ, R.J., JR. 2005. Application of FIA-based data to wildlife habitat

modeling: a comparative study. In R. E. McRoberts et al., editors.Proceedings... ...November 19-21, 2002). NC-GTR-252. U.S.Department of Agriculture, Forest Service, North Central ResearchStation, St. Paul, MN. p 7-10.FRESCINO, T. S. AND MOISEN, G. G. 2005. Predictive mapping of forestattributes on the Fishlake National Forest. In R. E. McRoberts et al.,editors. Proceedings... ...November 19-21, 2002). NC-GTR-252. U.S.

Department of Agriculture, Forest Service, North Central ResearchStation, St. Paul, MN. p 215-221.JOHNSON, D. S. and WILLIAMS, M. S. 2004... ...Interior West. Proceedings ofthe USFS Remote Sensing Conference, 2004, CD-ROM.

MOISEN, G. G. 2005. Mapping forest attributes in the Interior West:comparing predictive modeling tools. Presentation in: M. Mardsden, M.Downing, and M. Rifle, compilers, Workshop Proceedings: QuantitativeTechniques for Deriving National Scale Data, FHTET-2005-12, Sept. 2005,101-118, with cd-rom.PATTERSON, P.L.; HANNIG, J ... ...Orleans, LA (November19-21, 2002). NC-GTR-252. U.S. Department of Agriculture, ForestService, North Central Research Station, St. Paul, MN. p 241-247.TERLETSKI, P. AND FRESCINO, T. S. 2005... ...November 19-21,2002). NC-GTR-252. U.S. Department of Agriculture, Forest Service,North Central Research Station, St. Paul, MN. p 249-252.
Descriptors: forest attribute maps |... ...x nomatch; spatial data |... ...x nomatch; remote sensing; gis |... ...x nomatch; automated data extraction

20/3,K/29 (Item 3 from file: 266) <u>Links</u>
Identifying No.: 0191941   Agency Code: AGRIC
Precision Agriculture, Tennessee Valley Research and Extension Center, Alabama

information dissemination
Associate Investigators: Mask, P. L.; Shaw, J. N.; Taylor, S. E.; Reeves, D. W.; Wersinger, J. M.; Rickman, D.; Luvall, J. C.; Grift, T. E.; Norris, B. E.; Burmester, C. H.; Norwood, S. H.; Hall, M.
Performing Org.: AUBURN UNIVERSITY, AGRONOMY & SOILS , AUBURN , ALABAMA   36849
Precision Agriculture, Tennessee Valley Research and Extension Center, Alabama
Summary: ...on various innovative aspects of agriculture in this region. The Tennessee Valley Research and Extension Center (TVS), located near Belle Mina, AL, is the hub of cotton research conducted by Auburn...

...of the space industry offer potential solutions to agricultural problems. For example, geospatial technologies, including global positioning systems (GPS), geographic

information systems (GIS), and remote sensing (RS), have already been shown to have widespread application in agriculture. These technologies are used in crop yield mapping, weed control, the variable rate application of lime, fertilizers, pesticides, and water. Although research has... ...crops such as cotton are needed. Experiment 1) Correlation of soil test values, electrical conductivity mapping, and soil maps with cotton yield data. Development of agronomic management zones for precision agriculture. Experiment 2) (continuation of 2001 experiment) Evaluation... ...designed to evaluate the interactive effects of tillage systems and irrigation on cotton productivity. Main plots [Tillage Systems] 1. Conventional tillage without paratilling 2. Conventional tillage with paratilling 3. No-tillage... ...gpm Experiment 3) Evaluate the utility of depicting cotton moisture status/stress using remote sensing data and thermometry. Experiment 4) Evaluate the inherent productivity of soils

for more efficient allocation of soil nutrients. For this experiment, we will evaluate yield data (corn, wheat and soybean) collected for several common soils of the region. Experiment 5) Development of automated data acquisition system to monitor machine performance. An automated data acquisition system (DAS) will be assembled and installed on different tractors and cotton harvesters at Belle Mina or at a private farm Experiment 6) Utilization of automated data accession system to determine relationships between machine performance and soil physical conditions. At the completion... ...in each of the four fields described in Experiment 1, the machine performance and

location data will be compiled and used to develop maps similar to yield maps. Also, each of the machine performance parameters will be compared with the soil data collected in Experiment 1. 7) Extension Component A precision agriculture website will be established to... ...program. A field day will also be conducted at the Tennessee Valley Research and Extension Center to increase awareness of precision agriculture in the agricultural community. Dr. Mask will also utilize... ...variable 5-ha site.

Fuzzy k-means clustering of terrain, remote sensing and electrical conductivity data was used to develop zones to compare to soil survey map units. Significant differences in seed cotton yield existed between the drier 2001 and 2002 versus...

Progress Report Summary: Adrian, A.M., C. Dillard, and P.L. Mask. 2004. GIS in Agriculture. p.Sullivan, D.G., J.N. Shaw, P.L. Mask, D. Rickman, J.Luvall and J.M.324-342. In J. Pick (ed.) GIS in Business. Idea Group, Inc. Hershey,Wersinger. 2000. High resolution remote sensing for evaluation of ... ...D. Rickman, E. A. Guertal, J.Luvall, and J. M. Wersinger. 2004. Evaluation of Multispectral Data forRapid Assessment of Wheat Straw Residue Cover. Soil Sci. Soc. Am. J.68: 2007-2013... ...Luvall, and J.M.Wersinger. 2004. Evaluating Corn (Zea Mays L.) N Variability Via RemoteSensed Data. Commun. Soil Sci. Plant Anal. 35(17/18) :2465-2483.

Thompson, A.N., J.N...

Descriptors: ...relations; crop production; production systems; agricultural engineering ; corn; wheat; cotton; fertilizers; sustainable agriculture; systems development; global positioning system; geographic information systems; soil properties; soil testing; mapping; electrical conductivity; crop yields; irrigation; soil moisture; crop productivity; non tillage; cover crops; data acquisition; data analysis; automation; information dissemination

20/3,K/30 (Item 1 from file: 583) Links
02916380
INTERGRAPH DEVELOPS COMPUTERISED MAPPING SYSTEM

US - INTERGRAPH DEVELOPS COMPUTERISED **MAPPING** SYSTEM
Automotive Electronics News (AEN) 28 August 1989 p21
INTERGRAPH DEVELOPS COMPUTERISED MAPPING SYSTEM
US - INTERGRAPH DEVELOPS COMPUTERISED MAPPING SYSTEM

Intergraph (Huntsville, US) has designed a computer-assisted, graphics-oriented, mapping/dispatching (CADMAP) system specifically for fleet managers and trucking companies. It will be marketed first to public safety organisations for dispatch centres for the 911 emergency no., then expanded to cover trucking, service and delivery vehicle fleets... ...1989, with fully certified software released in April 1990. In conjunction with geographic information systems (GIS), CADMAP can capture, manage, display and analyse spatial data which it communicates in both alphanumeric and graphic form, superseding the alphanumeric-based CAD. CADMAP could, for example, display on a graphics workstation screen a map of the service area and icons indicating vehicle locations and find the quickest or shortest way to a location. Intergraph also plans to develop an interface to an automated vehicle location system to track moving vehicles and a mobile data terminal interface to enable dispatchers to add to voice commands digital transmissions to an in...

26/3,K/1 (Item 1 from file: 144) <u>Links</u>
Pascal

15529400   PASCAL No.: 02-0227106

Automatic fusion of freehand endoscopic brain images to three-dimensional surfaces: Creating stereoscopic panoramas

DEY Damini; GOBBI David G; SLOMKA Piotr J; SURRY Kathleen J M; PETERS Terence M
Imaging Research Laboratories, John P. Robarts Research Institute, London, ON N6A 5K8, Canada; Department of Diagnostic Radiology and Nuclear Medicine, London Health Sciences Center, London, ON N6A 5K8, Canada; Imaging Research Laboratories, John P. Robarts Research Institute, University of Western Ontario, 100 Perth Drive, London, ON N6A 5K8, Canada

... of the phantom (physical space) and CT images (preoperative image space) was accomplished using fiducial **markers** that could be identified both on the phantom and within the images. The endoscopic images were corrected for radial lens distortion and then **mapped** onto the extracted surfaces via a two-dimensional 2-D to 3-D **mapping** algorithm. The optical tracker has an accuracy of about 0.3 mm at its

centroid , which allows the endoscope tip to be localized to within 1.0 mm. The **mapping** operation allows multiple endoscopic images to be "painted" onto the 3-D brain surfaces, as...

English Descriptors: Endoscopy; Brain (vertebrata); Test **object**;
   Computerized axial tomography; Associated technique; Image
   processing; Melting; 3D imaging; Polygonal shape; Digital image;
   Information extraction...

28/3,K/1 (Item 1 from file: 144) **Links**
Pascal

   14273370   PASCAL No.: 99-0477856

   3D grand tour for multidimensional data and clusters
   IDA-99 : advances in intelligent data analysis : Amsterdam, 9-11 August
1999

   LI YANG
   HAND David J, ed; KOK Joost N, ed; BERTHOLD Michael R, ed
   Institute of High Performance Computing, National University of
Singapore, 89 Science Park Drive, #01-05/08 The Rutherford, Singapore
118261, Singapore
   Advances in intelligent data analysis. International symposium, 3 (
Amsterdam NLD). 1999-08-09
   Journal: Lecture notes in computer science,
1999, 1642 173-184

   Language: English

   ... points, interactive picking and drill down, and cluster similarity
graphs, help   further   the   understanding   of **data**. A CAVE
virtual reality environment is at our disposal for 3D immersive
display. This approach of multidimensional visualization...

```
Set     Items    Description
S1    3015022    S (MAP OR MAPS OR MAPP? OR (CARTOGRAPH? OR GEOGRAPH?)(2N)(CHART? OR
LOCATOR? ? OR NAVIGATOR? ? OR DIAGRAM? ?) OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST
OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)
S2      15370    S S1 (3N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR
BANK? ? OR SET? ? OR FILE? ? OR TABLE? ?) OR DB OR (ORGANI?ED()COLLECTION? ? OR RELATED OR
INTERRELATED)(2N)(FILES OR INFORMATION OR DATA) OR INFORMATION(N)MANAGEMENT OR SIMS OR
(CENTRAL? OR PERSISTENT)(2N)STORAGE OR KNOWLEDGEBASE? ?)
S3     465966    S GIS OR GPS OR GLOBAL()POSITION? OR (GLOBAL OR SATELLITE? ?)()LOCAT??? OR
GLONASS OR POSITION()(DATA OR INFORMATION) OR LONGITUDE OR LATITUDE OR ALTITUDE OR LORAN
GEORGRAPHICAL()INFORMATION()SYSTEM
S4    3196188    S CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?)
OR BARYCENTER OR CENTER? ? OR CENTRE? OR CENTRAL? ?
S5    8794459    S GEOCOD? OR GEO()COD? OR DEMOGRAPH? OR CHARACTERI?ATION? ? OR DATA
S6     120569    S (VIRTUAL OR AUTOMAT?? OR COMPUTERI?ED OR INTELLIGENT)(2N)(ADDRESS? OR
PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR COMPONENT? ? OR POSITION? ? OR LOCATION? ?
OR NUMBER? ? OR ZIP()CODE OR HOUS? OR HOME? OR STREET? ?)
S7      96204    S (PLURALITY OR GROUP??? OR MULTIPLE? OR SEVERAL OR TWO OR 2 OR PLURAL OR
ANOTHER OR OTHER? ?)(2N)(RADIAL? ? OR RADII OR SPOKE? ? OR RAYS OR RAY OR GRID? ?)
S8     112818    S (USER? ? OR CLIENT? ? OR PATRON? ? OR CONSUMER? ? OR CUSTOMER?
?)(3N)(INPUT? OR (IN()PUT OR PUTS OR PUTTING) OR INFORMATION OR PROMPT? OR PROVOKE? OR
EVOKE? OR CUE OR TRANSMI?)
S9     228480    S (OUTPUT? ? OR OUT()PUT? ? OR TRANSFER? ? OR TRANSMISSION? ? OR TRANSFER?
OR CONVEY OR SHIFT? OR TRANSMIT? OR TRANSPORT? OR TRANSPOS? OR GENERAT? OR PRODUC? OR
DEFIN? OR DEVELOP? OR DISPLAY? ?)(3N)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR
RADIAL? ? OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S10    746703    S S4 AND S5
S11      1019    S S2(10N)S10
S12       111    S S11(S)S3
S13         5    S S12(S)S6
S14         1    S S13 NOT PY>1999
S15     81867    S S1(S)S3
S16      6362    S S15(S)S4
S17      3676    S S16(S)S5
S18        60    S S17(S)S6
S19         1    S S18(S)S7
S20         1    S S19 NOT PY>1999
S21         1    S S20 NOT S14
S22         4    S S18(S)S8
S23         0    S S22(S)S9
S24         9    S S18(S)S9
S25         6    S S24 NOT PY>1999
S26         5    RD  (unique items)
S27         0    S ((GEOCOD? OR GEO()CODE)(S)(CENTROID? OR METACENTER? ? OR METACENTRE? OR
META()(CENTER? OR CENTRE?) OR BARYCENTER))(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR
PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR
HOUS?))(S)((MAP OR MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR
MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT?
?)(5N)(CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?)(2N)(DATABASE? ? OR (DATA
OR INFORMATION OR KNOWLEDGE)()BASE? ?))
S28         8    S (CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?)
OR BARYCENTER)(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA
OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))
S29         4    S S28 NOT PY>1999
S30         4    RD  (unique items)
 ; show files
```

[File 2] **INSPEC** 1898-2007/Jun W1

===

14/3,K/1 (Item 1 from file: 484) <u>Links</u>
Periodical Abs Plustext
02370509 (USE FORMAT 7 OR 9 FOR FULLTEXT)
"We know who you are and we know where you live": The instrumental rationality of geodemographic systems

Goss, Jon

Text:

...by the Census Bureau and the Geological Survey for the 1990 census. It
is a **computerized map data base** for the United
States that provides the coordinates and common names of line features,
landmarks...
...It is used to identify and allocate addresses to census units and with a
compatible **GIS** may be used to generate thematic maps of census data.
      6. For example, in Britain...

++++++++++++++++++++

21/3,K/1 (Item 1 from file: 2) <u>Links</u>
INSPEC
06044909 **INSPEC Abstract Number:** C9510-7190-025
Title: Forest fire fuel type mapping using GIS and remote sensing in British Columbia
Author Hawkes, B.; Niemann, O.; Goodenough, D.; Lawson, B.; Thomson, A.; Sahle, W. ; Fuglem, P.; Beck, J.;
Bell, B.; Symington, P.
Author Affiliation: Pacific Forestry Centre, Canadian Forest Service, Victoria, BC, Canada
Conference Title: Ninth Annual Symposium on Geographic Information Systems in Natural Resources
Management. Symposium Proceedings **Part** vol.2 p. 647-56 vol.2
Abstract: Preliminary results of two multiagency projects to **map** fuel types using geographic information systems
(GIS) and forest inventory **data** in British Columbia (BC) are reported. A multiphase project in the Victoria
watershed is associated with a larger project at Pacific Forestry **Centre** called SEIDAM (System of Experts for
Intelligent Data Management) led by Dr. David Goodenough. Phase one of this project to characterize forest and...
...applied at the polygon level. Fuel types are also being classified on a 2 by **2 km grid** basis for 7000 (1:20000) **map**
sheets covering most of BC by the BC Ministry of Forests Protection Branch using the fuel type algorithm. The
resulting fuel type **maps** will be used in the advanced fire management decision support system (Windows based) as
one **data** layer required to predict fire behavior and displayed directly to illustrate fuel types spatially for...

+++
26/3,K/1 (Item 1 from file: 2) <u>Links</u>
INSPEC
07258336 **INSPEC Abstract Number:** B1999-07-6250G-004, C1999-07-7340-013
Title: Integration of GPS, GIS and Windows technology for water quality study in North Alabama
Author Guchuan Liu; Coleman, T.L.; Tadesse, W.

Author Affiliation: Center for Hydrology, Soil Climatology & Remote Sensing, Alabama A&M Univ., Normal, AL, USA
Conference Title: GIS/LIS'96 Annual Conference and Exposition Proceedings   p. 22-9
Publisher: American Society for Photogrammetry & Remote Sensing , Bethesda, MD, USA
Publication Date: 1996 **Country of Publication:** USA   xv+1284 pp.
   Material Identity Number: XX-1996-03162
Conference Title: Proceedings of Geographic Information Systems/Land Information Systems
Conference Sponsor: American Congress on Surveying & Mapping; American Soc. for Photogrammetry & Remote Sensing; AM/FM Int.; Assoc. of American Geographers; Urban & Regional Inf. Syst. Assoc.; American Public Works Assoc
Conference Date: 19-21 Nov. 1996   **Conference Location:** Denver, CO, USA
Language: English
 Subfile: B C
 Copyright 1999, IEE

Abstract: The **Center** for Hydrology, Soil Climatology, and Remote Sensing (HSCaRS) at Alabama A&M University has conducted... ...regards to agrochemicals in four counties in north Alabama (USA). In this project, the latest **GPS** and desktop **GIS**, as well as Windows technology have been employed for locating, **mapping** the sample sites, and presenting the results interactively using desktops. A Motorola **GPS** system provided by GeoResearch Inc., ArcView 2.1 and MapObjects from ESRI, and Visual Basic 4.0 from Microsoft were used. The **GPS** system includes two precision 8 channel **GPS** receivers with carrier phase measurement capability. With two **GPS** receivers, post-differential correction was performed over all **GPS** field **data** to ensure accuracy. The initial **GPS** files were exported into into text files and translated into ArcView shape files. Within the ArcView environment, a geo-database, which contained shape files for all **GPS** points and base **maps** for the four counties, was built. Thematic **mapping** was performed by using attributes of water quality and hard-copy **maps** were **generated**. Furthermore, an easy to use **GIS** program was developed with VB 4.0 and MapObjects. With this program, one could display and search sample sites and their water quality interactively. The integration of **GPS, GIS,** and Windows technology in this project was successful. Enormous man power was saved by establishing **automatic** procedures for **data** capture, **data** conversion, and **map** manipulation.

 26/3,K/2 (Item 2 from file: 2) **Links**
INSPEC
05852835   **INSPEC Abstract Number:** B9502-6330-007
Title: A feasibility study of the automatic vehicle location system in Hong Kong
Author Yat Man Choi; Man Yat Leung; Lee, W.C.; Hau, S.
Author Affiliation: Dept. of Electron. Eng., City Polytech. of Hong Kong, Kowloon, Hong Kong
Conference Title: Third International Symposium on Consumer Electronics   Part vol.2   p. 294-9 vol.2
Publisher: IEE , Hong Kong
Publication Date: 1994 **Country of Publication:** Hong Kong   2 vol. xv+545 pp.
ISBN: 962 442 062 9
Conference Title: Third International Symposium on Consumer Electronics
Conference Sponsor: Hitachi; Epson Found.; Siemens Components; Ind. Technol. Res. Inst.; Toshiba Electron.; Hong Kong Ind. Technol. Centre
Conference Date: 14-16 Nov. 1994   **Conference Location:** Hong Kong
Language: English
 Subfile: B

Abstract: The **components** of our **Automatic** Vehicle **Location** (AVL) System consists of the following system moduli: (A) **Global Position** System (**GPS**) receiver - for the **GPS position data**; (B) Trunked Radio System-a communication system to send back the **GPS data**; (C) **Mapping** System-to **display** mobile **position data** on the screen; and (D) Interfacing the system between the **GPS** and the trunked mobiles-to send the **GPS data** to the trunked mobile and the handling of the trunked radio calls automatically. This paper... ...brief description of the above systems as applied to the AVL System. The field trial **data** showed that the AVL system is feasible in Hong Kong. The combination of the **GPS** and Dead Reckoning (DR) **data** gave the average position accuracy of 23.2 meters which is quite acceptable for the AVL type of service. The **GPS** alone shows the position accuracy of about 42 meters which is still acceptable for such... ...information, especially in the urban building canyon areas. With the help of the DR, the **position information** that is sent back to the control **center** by means of the trunked radio system is available from the vehicle virtually at all...

26/3,K/3 (Item 1 from file: 8) **Links**
 Fulltext available through: USPTO Full Text Retrieval Options
Ei Compendex(R)
06477714 **E.I. Monthly No:** EI9209121238
Title: Environmental display manager: a tool for water quality data integration.

Author: Samuels, William, B.; Taylor, Phillip, L.; Evenhouse, Paul, B.; Bondelid, Timothy, R.; Eggers, Paul, C.; Hanson, Sue, A.
Corporate Source: Science Applications Intl Corp, McLean, VA, USA
Abstract: ...a development system on an IBM 3090 mainframe at the U.S. EPA National Computer **Center** in Research Triangle Park, North Carolina. EDM provides **mapping, display**, analysis support, and information management capabilities to workstations located across the United States, and connected... ...state, academic, and private communications networks. Through interactive software, EDM can quickly support analyses, create **maps** and graphics, and **generate** reports that integrate millions of pieces of environmental **data**. The concept of EDM is to provide easy access to environmental **information**, to provide **automated** environmental analyses and reports, and then to provide **data**, graphics, images, text, and documents that can be used by numerous output devices, software packages, and computers. The **mapping** component works with an electronic version of the 54,000 7.5 minute quad sheets of the U.S. Geological Survey. The software also works with a hydrographic **data** base of the surface waters of the United States. With the **maps**, a user can look at the rivers in any state, can zoom in on a ... ...downstream components, and linkage of environmental features associated with surface waters. Alternatively, users can query **data** based on **latitude/longitude**, city name, EPA permit number, state agency and station code, river name or number, and river cataloging unit. The **maps** can be overlaid with roads and environmental sites such as: municipal and industrial dischargers, Superfund...

26/3,K/4 (Item 1 from file: 23) **Links**
CSA Technology Research Database

0004801000   IP Accession No: N03-12916
Mapping Van

Book Title: Mapping Van

Publication Date: 1994

Document Type: Monograph
Record Type: Abstract
Language: English
File Segment: Aerospace & High Technology

Abstract:
A NASA **Center** for the Commercial Development of Space (CCDS) - **developed** system for satellite **mapping** has been commercialized for the first time. Global Visions, Inc. **maps** an area while driving along a road in a sophisticated **mapping** van equipped with satellite signal receivers, video cameras and computer systems for collecting and storing **mapping data. Data** is fed into a **computerized** geographic **information** system **(GIS).** The resulting amps can be used for tax assessment purposes, emergency dispatch vehicles and fleet...

26/3,K/5 (Item 2 from file: 23) **Links**
    Fulltext available through: USPTO Full Text Retrieval Options
CSA Technology Research Database
0004105321   IP Accession No: 2742317
GPS-based vessel tracking.

Swale, S L Trimble Navigation Ltd.

Document Type: Journal Article
Record Type: Abstract
Language: English
ISSN: 0093-3651
File Segment: Electronics & Communications Abstracts

Abstract:
High-accuracy **global positioning** system **(GPS)** equipment coupled with modern **data** communications and digital **map displays** offers an approach known as automated dependent surveillance (ADS) to enhance and extend vessel traffic services (VTS) coverage. **GPS-based** automated dependent surveillance and the more traditional radar-based independent surveillance systems complement each other as mutually reinforcing technologies for enhanced VTS coverage. A properly integrated **GPS** receiver can provide both vessel navigation for the crew and **automatic position** reporting for VTS applications. With self-correcting real-time differential **GPS (DGPS),** accuracies on the order of 5 meters are typically reported. The U.S. Coast Guard Research & Development **Center** in Groton,

Connecticut, has found that real-time DGPS is so reliable that it is...

++

30/3,K/1 (Item 1 from file: 2) <u>Links</u>
INSPEC
07519945   **INSPEC Abstract Number:** C2000-04-6130B-029
Title: 3D grand tour for multidimensional data and clusters
Author Li Yang
Author Affiliation: Inst. of High Performance Comput., Nat. Univ. of Singapore, Singapore
Conference Title: Advances in Intelligent Data Analysis. Third International Symposium, IDA-99. Proceedings
(Lecture Notes in Computer Science Vol.1642)   p. 173-84
Editor(s): Hand, D.J.; Kok, J.N.; Berthold, M.R.
Publisher: Springer-Verlag , Berlin, Germany
Publication Date: 1999 **Country of Publication:** Germany xii+538 pp.
ISBN: 3 540 66332 0   **Material Identity Number:** XX-1999-01644
Conference Title: Proceedings of IDA 99 - 3rd International Symposium on Intelligent Data Analysis
Conference Date: 9-11 Aug. 1999   **Conference Location:** Amsterdam, Netherlands
Language: English
Subfile: C
Copyright 2000, IEE
Abstract: ...subspaces. 3D cluster-guided tour is proposed where sequences of projections are determined by cluster **centroids**. Cluster-guided tour makes inter-cluster distance-preserving projections under which clusters are displayed as... ...points, interactive picking and drill down, and cluster similarity graphs, help further the understanding of **data**. A CAVE **virtual** reality environment is at our disposal for 3D immersive display. This approach of multidimensional visualization...

30/3,K/2 (Item 2 from file: 2) <u>Links</u>
Fulltext available through: <u>ScienceDirect</u>
INSPEC
06909053   **INSPEC Abstract Number:** C9806-7210-028
Title: Cross-searching subject gateways. The query routing and forward knowledge approach
Author Kirriemuir, J.; Brickley, D.; Welsh, S.; Knight, J.; Hamilton, M.
Author Affiliation: Inst. for Learning & Res. Technol., Bristol Univ., UK
URL: http://www.dlib.org/dlib/january98/01kirriemuir.html
Journal: D-Lib Magazine
Publication URL: http://mirrored.ukoln.ac.uk/lis-journals/dlib/
Publisher: Corporation for National Research Initiatives ,
Publication Date: Jan. 1998 **Country of Publication:** USA
ISSN: 1082-9873
Material Identity Number: G467-98012
Language: English
Subfile: C

Abstract: ...are also known as subject based information gateways (SBIGs), subject based gateways, subject index gateways, **virtual** libraries: clearing **houses**, subject trees, pathfinders and other variations thereof. The paper describes the characteristics of some of... ...them to automatic "vacuum cleaner" type search engines, such as AltaVista. The application of WHOIS++, **centroids**, query routing, and forward knowledge to searching several of these subject gateways simultaneously is outlined...

30/3,K/3 (Item 1 from file: 34) **Links**
    Fulltext available through: USPTO Full Text Retrieval Options
SciSearch(R) Cited Ref Sci
08847254   **Genuine Article#:** BQ39R   **No. References:** 16
3D grand tour for multidimensional data and clusters

Author: Yang L (REPRINT)
Corporate Source: NATL UNIV SINGAPORE,INST HIGH PERFORMANCE, 89 SCI PK DR, 01-05-08 THE RUTHERFORD/SINGAPORE 118261//SINGAPORE/ (REPRINT)
, 1999 , V 1642 , P 173-184
ISSN: 0302-9743   **Publication date:** 19990000
Publisher: SPRINGER-VERLAG BERLIN , HEIDELBERGER PLATZ 3, D-14197 BERLIN, GERMANYLECTURE NOTES IN COMPUTER SCIENCE
Series: LECTURE NOTES IN COMPUTER SCIENCE
Language: English   **Document Type:** ARTICLE   (ABSTRACT AVAILABLE)
Abstract: ...subspaces. 3D cluster-guided tour is proposed where sequences of projections are determined by cluster **centroids**. Cluster-guided tour makes inter-cluster distance-preserving projections under which clusters are displayed as... ...points, interactive picking and drill down, and cluster similarity graphs, help further the understanding of **data**. A CAVE **virtual** reality environment is at our disposal for 3D immersive display. This approach of multidimensional visualization...

30/3,K/4 (Item 1 from file: 292) **Links**
GEOBASE(TM)
00101912   **Supplier Number** 0408106
The federal electoral divisions information system: its spatial base and mapping system.
Parvey C.A.
CSIRO Australia, Division of Land Use Research, Technical Memorandum, , 82/6 (20p) , 1982
Document Type: Journal
Languages: English
Figures: 5 figs, 3 tables, 5 refs.

A **computerized** geographic **information** system using the Australian Federal Electoral Division as a unit of spatial reference has been... ...software. The maps produced by the system are in the form of shaded maps or **centroid** maps; both can clearly display inter-electoral differences. -Author.

Subject search: non patent literature, full text #2

09/439550

Set   Items   Description
S1   3702753   S (MAP OR MAPS OR MAPP? OR (CARTOGRAPH? OR GEOGRAPH?)(2N)(CHART? OR LOCATOR? ? OR NAVIGATOR? ? OR DIAGRAM? ?) OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)
S2   25463   S S1 (3N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET? ? OR FILE? ? OR TABLE? ?) OR DB OR (ORGANI?ED()COLLECTION? ? OR RELATED OR INTERRELATED)(2N)(FILES OR INFORMATION OR DATA) OR INFORMATION(N)MANAGEMENT OR SIMS OR (CENTRAL? OR PERSISTENT)(2N)STORAGE OR KNOWLEDGEBASE? ?)
S3   310205   S GIS OR GPS OR GLOBAL()POSITION? OR (GLOBAL OR SATELLITE? ?)()LOCAT??? OR GLONASS OR POSITION()(DATA OR INFORMATION) OR LONGITUDE OR LATITUDE OR ALTITUDE OR LORAN GEORGRAPHICAL()INFORMATION()SYSTEM
S4   7463966   S CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR BARYCENTER OR CENTER? ? OR CENTRE? OR CENTRAL? ?
S5   8491499   S GEOCOD? OR GEO()COD? OR DEMOGRAPH? OR CHARACTERI?ATION? ? OR DATA
S6   223818   S (VIRTUAL OR AUTOMAT?? OR COMPUTERI?ED OR INTELLIGENT)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR COMPONENT? ? OR POSITION? ? OR LOCATION? ? OR NUMBER? ? OR ZIP()CODE OR HOUS? OR HOME? OR STREET? ?)
S7   50091   S (PLURALITY OR GROUP??? OR MULTIPLE? OR SEVERAL OR TWO OR 2 OR PLURAL OR ANOTHER OR OTHER? ?)(2N)(RADIAL? ? OR RADII OR SPOKE? ? OR RAYS OR RAY OR GRID? ?)
S8   947420   S (USER? ? OR CLIENT? ? OR PATRON? ? OR CONSUMER? ? OR CUSTOMER? ?)(3N)(INPUT? OR (IN()PUT OR PUTS OR PUTTING) OR INFORMATION OR PROMPT? OR PROVOKE? OR EVOKE? OR CUE OR TRANSMI?)
S9   329965   S (OUTPUT? ? OR OUT()PUT? ? OR TRANSFER? ? OR TRANSMISSION? ? OR TRANSFER? OR CONVEY OR SHIFT? OR TRANSMIT? OR TRANSPORT? OR TRANSPOS? OR GENERAT? OR PRODUC? OR DEFIN? OR DEVELOP? OR DISPLAY? ?)(3N)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR RADIAL? ? OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S10   2115741   S S4 AND S5
S11   2150   S S2(10N)S10
S12   350   S S11(S)S3
S13   10   S S12(S)S6
S14   10   S S13 NOT PY>1999
S15   9   RD (unique items)
S16   41910   S S1(S)S3
S17   3174   S S16(S)S4
S18   1405   S S17(S)S5
S19   59   S S18(S)S6
S20   0   S S19(S)S7
S21   25225   S S8 AND S9
S22   5   S S19(S)S21
S23   2   S S22 NOT PY>1999
S24   2   RD (unique items)
S25   0   S ((GEOCOD? OR GEO()CODE)(S)(CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR BARYCENTER))(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))(S)((MAP OR MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)(5N)(CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?)(2N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()BASE? ?))
S26   0   S (CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR BARYCENTER)(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))
; show files

[File 9] **Business & Industry(R)** Jul/1994-2007/Jun 11

[File 15] **ABI/Inform(R)** 1971-2007/Jun 13

[File 16] **Gale Group PROMT(R)** 1990-2007/Jun 12

[File 98] **General Sci Abs** 1984-2007/Jun

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Jun 12

[File 160] **Gale Group PROMT(R)** 1972-1989

[File 624] **McGraw-Hill Publications** 1985-2007/Jun 06
File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more

[File 553] **Wilson Bus. Abs.** 1982-2007/Jun

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2007/Jun 11

[File 635] **Business Dateline(R)** 1985-2007/Jun 13

===

15/3,K/1 (Item 1 from file: 9) **Links**
Business & Industry(R)
00571153 Supplier Number: 23072577 **(USE FORMAT 7 OR 9 FOR FULLTEXT)**
COGNITO RECKONS IT's FIRST TO PROFIT IN BAND III RADIO WORLD; 1996 FLOAT SEEN
(Cognito says it is 1st UK mobile data communications provider to make operating profit in yr to 9/30/94)

Computergram International , n 2536 , p N/A
November 03, 1994
Document Type: Newsletter **ISSN:** 0268-716X (United Kingdom)
Language: English **Record Type:** Fulltext
Word Count: 584 **(USE FORMAT 7 OR 9 FOR FULLTEXT)**

TEXT:

...or 3Kb, though there is no maximum length. Cognito now plans to add an
integrated **automatic** vehicle **location** and messaging system to
chart the movements of vehicles and send and receive data messages at the
same time, AVLplus. It collects location data from the network of
Global Positioning Satellites and sends it across the Cognito
mobile data communications network to a central personal computer. On this
central computer, **data** is overlaid on AutoRoute Plus - a
Windows-based **mapping**, routing and **database** package from
Microsoft Corp's NextBase Ltd acquisition. It will display exact vehicle
location, speed...

15/3,K/2 (Item 1 from file: 15) <u>Links</u>
ABI/Inform(R)
01042775   96-92168
Address matching - GIS technology for mapping human activity patterns

Drummond, William J
Journal of the American Planning Association   v61n2 pp: 240-251
Spring 1995
ISSN: 0194-4363 **Journal Code:** AIP
Word Count: 6666
Text:

...form for more than thirty years, first as stand-alone software, and now
embedded within **GIS** packages. It was initially developed by the U.S.
Bureau of the Census for a...

...U.S. Bureau of the Census 1970; Marx 1990). In 1970 the Census Bureau
used **computerized** files of **street** names and address ranges in
order to assign geographic codes within 145 urban areas. For the 1980
census, the Bureau added spatial information (**longitude** and
latitude) and a number of nonstreet features, to create the GBF/DIME
files. For 1990 the...

...the entire country, greatly increased the number of address ranges, and
developed a more sophisticated **data** structure, producing the TIGER
system of databases.

Databases and software for **address** matching have been
available from the Bureau of the Census for 25 years (U.S...

15/3,K/3 (Item 2 from file: 15) <u>Links</u>
ABI/Inform(R)
00949208   95-98600
Avoiding liabilities downstream

Hamlin, Mark
Mortgage Banking v55n2 pp: 111-126
Nov 1994
ISSN: 0730-0212 **Journal Code:** MOB
Word Count: 6866
Text:

...the fit between the DFIRM and the street map is much better.

Tax map systems

Computerized tax **map data bases**, of the type
needed to develop a computerized **GIS** tax map system, are not
commercially available on a national scale. This stands in marked...

...by the government. Nevertheless, if the tax data was available or
created for the purpose, **GIS** tools could be used to create automated
tax systems.

To date, I suspect the bulk...

15/3,K/4 (Item 3 from file: 15) **Links**
ABI/Inform(R)
00941567   95-90959
GIS & decision support systems

Wilson, Robert D
Journal of Systems Management v45n11 pp: 36-40
Nov 1994
ISSN: 0022-4839 **Journal Code:** JSM
Word Count: 2470
Text:

...data.

Newer PC programs include graphical display of geographic features which
are tied to the **database** and **automated address**
matching of **data files** to specific geographic locations (
geocoding). The PC-based **GIS** has the ability to display
spatial occurrences and the relationship between and

15/3,K/5 (Item 1 from file: 148) **Links**
Gale Group Trade & Industry DB
11033455   **Supplier Number:** 54623275 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Examples Database: Solutions for Cities.(public safety program description from Examples of Programs for
Cities database)**

Behroozi, Cy
Nation's Cities Weekly , 22 , 17 , 9(1)
April 26 , 1999
ISSN: 0164-5935
Language: English
Record Type: Fulltext
Word Count: 1315   **Line Count:** 00114


```
...fire incidents, are mapped using a computerized geographic information
system (GIS). The GIS digests the data sets into one
map which highlights potential target areas. Camden officers in or
near target zones, thus expediting response...
```


15/3,K/6 (Item 2 from file: 148) **Links**
Gale Group Trade & Industry DB
09332263   **Supplier Number:** 19160596 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Spotlight shifts to risk management demo in 1997. (gas pipeline industry)(Outlook '97)

Willke, Ted
Pipe Line & Gas Industry , v80 , n1 , p36(3)
Jan , 1997
ISSN: 1079-8765
Language: English
Record Type: Fulltext
Word Count: 1858   **Line Count:** 00161

```
...display with computer mapping systems. This tool simplifies the use of
geographic information systems, automated mapping/facility
management and data base systems.
     GRI has also taken the lead in developing software for a range of
special...
```


15/3,K/7 (Item 3 from file: 148) **Links**
Gale Group Trade & Industry DB
07621974   **Supplier Number:** 16739591 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Avoiding liabilities downstream. (flood insurance determination)

Hamlin, Mark
Mortgage Banking , v55 , n2 , p111(10)
Nov , 1994
ISSN: 0730-0212
Language: ENGLISH
Record Type: FULLTEXT

Word Count: 7383 **Line Count:** 00577

...systems
　　Computerized tax map data bases, of the type needed to develop a
computerized GIS **tax** map system, are not commercially available on a
national scale. This stands in marked contrast...

...the government. Nevertheless, if the tax data was available or created
for the purpose, GIS **tools** could be used to create automated tax
systems.
　　To date, I suspect the bulk of...

15/3,K/8 (Item 4 from file: 148) **Links**
Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rights reserved.
07593411　**Supplier Number:** 16454646 (USE FORMAT 7 OR 9 FOR FULL TEXT)
GIS & decision support systems. (Geographic Information System)

Wilson, Robert D.
Journal of Systems Management , v45 , n11 , p36(5)
Nov , 1994
ISSN: 0022-4839
Language: ENGLISH
Record Type: FULLTEXT; ABSTRACT
Word Count: 2688　**Line Count:** 00217

...and automated address matching of data files to specific geographic
locations (geocoding). The PC-based **GIS** has the ability to display
spatial occurrences and the relationship between

15/3,K/9 (Item 1 from file: 624) **Links**
McGraw-Hill Publications

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0003310
Geographic sophisticates cash in
Engineering News-Record, Vol. 214, No. 19, Pg 20
May 9, 1985
JOURNAL CODE:　ENR
SECTION HEADING: Computers　ISSN:　0013-807X
WORD COUNT:　1,143

TEXT:

...piece of the market.

　　According　to　William　D. Goran, developer of the Corps of

Engineers' **GIS**, the difference is analytic capability. With
GIS , he says, the primary focus is on generating new information by
analyzing, modeling and combining...

... an automated mapping system, on the other hand, is to rationalize
existing records into a **computerized data base** from
which new **maps** can be generated.

Although the line is blurring, there are fundamental
differences, maintains Jack P...

++

24/3,K/1 (Item 1 from file: 148) <u>Links</u>
Gale Group Trade & Industry DB
0019684989   **Supplier Number:** 50064598 (USE FORMAT 7 OR 9 FOR FULL TEXT)
-RAM: RAM Mobile Data helps cut Ambulance arrival times

Text:
...real-time picture of emergency vehicle status. Ambulances and other
emergency vehicles are fitted with **Global Positioning** System
(GPS) receivers, which automatically transmit details of their
location and status over the RAM Network to the control **centre**. As
soon as **GPS**-calculated positions are transmitted from the vehicles
via RAM radio modems over the network to...

...processed by the Terrafix AVL computer. Customised software
automatically places colour-coded symbols on computerised **map**
displays, to indicate the operational status of each vehicle,
whether stationary, mobile or at scene. Comms **centre** operators have
an 'at a glance' overview, allowing them to more quickly and efficiently
deploy...
...rate to at least 75% before 2001. An initial three month evaluation of
the mobile **data** solution showed the time between taking an incoming
999 call, to assigning an ambulance had...

...of all information had to be confirmed by voice," said Joe Garcia,
Emergency Patients Communications **Centre** Manager at Sussex Ambulance
Trust. "A simple message from the Control **Centre** took between sixty
and ninety seconds. Using mobile **data** instead of voice radio, this
was reduced to an average of twelve seconds over the...

...to the RAM Network via an X25 link." The system has been developed by
Terrafix, **Automatic** Vehicle **Location** and mobile **data**

specialist and a business partner of RAM Mobile **Data**. The pilot
project will be rolled out county-wide by September, and support one of...

...Emergency calls per year, over 1,500 square miles. Vehicles are fitted
with Terrafix mobile **data** terminals, which include a display screen
and keyboard. Drivers can press keys to select from...

...information. Clinical audit forms allow paramedics to send medical
details directly back to the control **centre**, for them to collate
patient treatments directly from the point of capture, as opposed to...

...are automatically acknowledged by receipt, including time and date,
which is sent back to the **central** database and enables the
centre to keep a comprehensive record of all patient details and
vehicle locations, for future reference...

...in cases of emergency. This keeps communication costs to a minimum, with
charges incurred for **data** sent, rather than time spent linked up to
the control **centre**. "We considered upgrading our own PMR system, but
this would have incurred the Trust huge...

...to withstand the amount of incoming and outgoing traffic."
"Increasingly, RAM is becoming the mobile **data** network service of
choice by people working in mission-critical environments," said David
Wellbelove, director...

...Sector Business Unit. "The Sussex Ambulance Trust has demonstrated the
strong business case for mobile **data** communications as a means of
improving key performance areas." Possible future developments to the
Terrafix system include upgrading the in-vehicle terminals to PC systems,
capable of displaying the control **centre mapping** information.
Other vehicle information, including fuel level and door lock details,
could also be relayed...

...board unit. About Terrafix Terrafix is a world leader in land
navigation, vehicle tracking, positioning, **data** communications and
mapping systems. The mobile communications equipment for the AVL
system is a unique combination of navigational...

...co.uk Please note: the word RAM is always in upper case. About RAM
Mobile **Data** Ltd. RAM Mobile **Data** offers the UK's widest
choice of wireless **data** solutions and works closely with industry
leading business partners providing hardware, software and integration
services...

...Service, Transportation & Distribution, Local Government, the
Emergency Services and the remote monitoring market. RAM Mobile **Data**
Ltd. was originally formed in 1989 as a joint business venture between
worldwide leaders in...

...BellSouth and RAM Broadcasting Corporation. In October 1997, BellSouth
reaffirmed its commitment to RAM Mobile **Data** Ltd and to the Mobitex
network technology, by increasing its stake in the company. Today, RAM

Mobile **Data** Ltd is a wholly owned subsidiary of BellSouth. With
assets worth $33 billion and $19...

...RAM has more than 15,040 subscribers and regularly transmits over 1
million packets of **information** a day. Major **Customers** include
UPS, Safeway, IBM, Digital, Coca-Cola, Kwik-Fit and ADT Fire and Security,
as...
...numerous Local Authorities and the Emergency Services. Customers today
are seeing the benefits of wireless **data** communications in fast
return on investment, improved productivity, reduced costs and competitive
edge. In 1996, the Home Office awarded RAM sole provider status for Mobile
Data Bearer services to the Police and Fire Services, under a Home
Office Framework arrangement. Today...

...third of the Police Forces in England and Wales use the RAM Network for
mobile **data** applications. About the RAM Network The RAM Network is a
UK-wide digital wireless **data** network which provides two-way,
real-time **data** communication over dedicated radio frequencies. The
Network offers continuous connection to IT systems for users in the field
and for remote operations. Users pay only for **data** transmitted and
not for the time or distance involved in connection to the Network. The RAM
Network uses Mobitex, the international standard for wireless **data**
communications, originally developed by Ericsson. Mobitex networks exist
internationally with 14 public networks, 8 private...

...93% for fixed coverage. The RAM Network caters for portable, mobile and
fixed solutions, enabling **data** communication between mobile workers
and host systems, between host systems and mobile workers, or between...

...monitoring purposes. Packet-switched networks differ from
circuit-switched networks such as GSM voice and **data** services.
Circuit-switched networks require a dedicated channel for communication and
while that channel is being used, no other user can access it.
Packet-switched networks, however, break **data** into sections or
packets which travel independently across the Network; this allows multiple
users to...

...results in far greater capacity, no busy signals and the ability to
charge only for **data** transmitted - not connection time. Most
importantly, because no connection is required, users are effectively
always...

...information as it becomes available. Because the RAM Network is
dedicated to short and frequent **data** exchange, it can support many
more **users** and **transmit data** faster and more reliably
than GSM's SMS text messaging service. This is because GSM...

...share system resource with voice services. The RAM Network is optimised
for and dedicated to **data** transmission; there is no trade-off
between voice and **data** transmission. The RAM Network is inherently
reliable; quarterly operational figures reflect an average Network
availability...

...is not outsourced. Because customers want solutions, not just
technology, RAM also delivers comprehensive mobile **data** solutions
using complementary network technologies. There are sometimes instances
where, in order to meet user needs, complementary network technologies can
be used to extend the advantages of a packet **data** solution. The RAM
Outernet is an extension of RAM's core packet-switched Mobitex network...

...allows organisations to spend more time focusing on what they need to
gain from mobile **data**, and less time worrying about which
technologies to use, or how to work with multiple...

...by Telia AB, Sweden. All other trademarks and copyrights acknowledged.
CONTACT: Frances Crossley RAM Mobile **Data** Ltd. Tel: +44 (0)181 990
9090 e-mail: crossley@ram.co.uk Ilona Hitel...

...lisaa/ilonah@lewispr.com *M2 COMMUNICATIONS DISCLAIMS ALL LIABILITY FOR
INFORMATION PROVIDED WITHIN M2 PRESSWIRE. **DATA** SUPPLIED BY NAMED
PARTY/PARTIES.*

24/3,K/2 (Item 1 from file: 624) **Links**
McGraw-Hill Publications

TEXT:

Provider of AM/FM/**GIS** applications offers assistance at various
stages of   implementation of enterprise-wide **GIS** applications. A
broad range of services are offered, including requirements analysis,
systems design, systems development and programming, **automated**
data translation services, and systems integration. Company has
developed applications to support work-management and bill-of-materials
systems, trouble-call analysis, advanced engineering design tools, and
production mapping . Company is able to provide expertise in
all of the major software platforms, but particularly...

... which is designed for around-the-clock reliability to meet service
requirements of the dispatch **center**. Specifically, firm designed and
developed: (1) a custom link from Smallworld to the utility's
customer information system, (2) Smallworld application
customization, (3) **data** translator customization, and (4) off-site
conversion of over 2-million IFF records from PSCo's existing GFIS

data base. The last task took less than six weeks.--GeoData Solutions Inc.

Set   Items   Description
S1   2923804   S (MAP OR MAPS OR MAPP? OR (CARTOGRAPH? OR GEOGRAPH?)(2N)(CHART? OR LOCATOR? ? OR NAVIGATOR? ? OR DIAGRAM? ?) OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)
S2   5848   S S1 (3N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR SET? ? OR FILE? ? OR TABLE? ?) OR DB OR (ORGANI?ED)()COLLECTION? ? OR RELATED OR INTERRELATED)(2N)(FILES OR INFORMATION OR DATA) OR INFORMATION(N)MANAGEMENT OR SIMS OR (CENTRAL? OR PERSISTENT)(2N)STORAGE OR KNOWLEDGEBASE? ?)
S3   191955   S GIS OR GPS OR GLOBAL()POSITION? OR (GLOBAL OR SATELLITE? ?)()LOCAT??? OR GLONASS OR POSITION()(DATA OR INFORMATION) OR LONGITUDE OR LATITUDE OR ALTITUDE OR LORAN OR GEORGRAPHICAL()INFORMATION()SYSTEM
S4   9343980   S CENTROID? OR METACENTER? ? OR METACENTRE? ? OR META()(CENTER? OR CENTRE?) OR BARYCENTER OR CENTER? ? OR CENTRE? OR CENTRAL? ?
S5   3251197   S GEOCOD? OR GEO()COD? OR DEMOGRAPH? OR CHARACTERI?ATION? ? OR DATA
S6   74659   S (VIRTUAL OR AUTOMAT?? OR COMPUTERI?ED OR INTELLIGENT)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR COMPONENT? ? OR POSITION? ? OR LOCATION? ? OR NUMBER? ? OR ZIP()CODE OR HOUS? OR HOME? OR STREET? ?)
S7   61011   S (PLURALITY OR GROUP??? OR MULTIPLE? OR SEVERAL OR TWO OR 2 OR PLURAL OR ANOTHER OR OTHER? ?)(2N)(RADIAL? ? OR RADII OR SPOKE? ? OR RAYS OR RAY OR GRID? ?)
S8   313912   S (USER? ? OR CLIENT? ? OR PATRON? ? OR CONSUMER? ? OR CUSTOMER? ?)(3N)(INPUT? OR (IN()PUT OR PUTS OR PUTTING) OR INFORMATION OR PROMPT? OR PROVOKE? OR EVOKE? OR CUE OR TRANSMI?)
S9   149357   S (OUTPUT? ? OR OUT()PUT? ? OR TRANSFER? ? OR TRANSMISSION? ? OR TRANSFER? OR CONVEY OR SHIFT? OR TRANSMIT? OR TRANSPORT? OR TRANSPOS? OR GENERAT? OR PRODUC? OR DEFIN? OR DEVELOP? OR DISPLAY? ?)(3N)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR RADIAL? ? OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S10   985605   S S4 AND S5
S11   442   S S2(10N)S10
S12   71   S S11(S)S3
S13   1   S S12(S)S6
S14   17442   S S1(S)S3
S15   1927   S S14(S)S4
S16   806   S S15(S)S5
S17   30   S S16(S)S6
S18   0   S S17(S)S7
S19   5887   S S8 AND S9
S20   2   S S17(S)S19
S21   0   S S20 NOT PY>1999
S22   0   S ((GEOCOD? OR GEO()CODE)(S)(CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR BARYCENTER))(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))(S)((MAP OR MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)(5N)(CHART? ? OR GRID? ? OR MARKER? ? OR MARK? ? OR GUIDE? ?)(2N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()BASE? ?))
S23   0   S (CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR BARYCENTER)(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))
; show files

[File 20] **Dialog Global Reporter** 1997-2007/Jun 13

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13/3,K/1 <u>Links</u>
Dialog Global Reporter
01287654 (USE FORMAT 7 OR 9 FOR FULLTEXT)
NATIONAL AGRICULTURAL STATISTICS SERVICE: Agricultural outlook -- April 1998 -- Part II of III

M2 PRESSWIRE
March 26, 1998
Journal Code: WMPR **Language:** English **Record Type:** FULLTEXT
Word Count: 7896
(USE FORMAT 7 OR 9 FOR FULLTEXT)

...by the past, current, and expected conditions represented by soil,
weather, pest level, and other **data** input from the **GIS**.
    Geographic **information** systems **(GIS)**.
Computerized map and **database** program that contains
spatial (map) and attribute (characteristic) **data** linked by a common
geographic identifier. **GIS** software provides for overlays and
geographic analyses of multiple mapped layers, representing the spatial
patterns...

Subject search: non patent literature, full text #4, business news resources
09/439550

Set   Items   Description
S1   1062728   S (MAP OR MAPS OR MAPP? OR (CARTOGRAPH? OR GEOGRAPH?)(2N)(CHART? OR LOCATOR? ?
OR NAVIGATOR? ? OR DIAGRAM? ?) OR STREET()LEVEL()DATA OR MAPQUEST OR MAP()QUEST OR
STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)
S2   9785   S S1 (3N)(DATABASE? ? OR (DATA OR INFORMATION OR KNOWLEDGE)()(BASE? ? OR BANK? ? OR
SET? ? OR FILE? ? OR TABLE? ?) OR DB OR (ORGANI?ED()COLLECTION? ? OR RELATED OR
INTERRELATED)(2N)(FILES OR INFORMATION OR DATA) OR INFORMATION(N)MANAGEMENT OR SIMS OR
(CENTRAL? OR PERSISTENT)(2N)STORAGE OR KNOWLEDGEBASE? ?)
S3   74063   S GIS OR GPS OR GLOBAL()POSITION? OR (GLOBAL OR SATELLITE? ?)()LOCAT??? OR GLONASS
OR POSITION()(DATA OR INFORMATION) OR LONGITUDE OR LATITUDE OR ALTITUDE OR LORAN OR
GEORGRAPHICAL()INFORMATION()SYSTEM
S4   1967890   S CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR
BARYCENTER OR CENTER? ? OR CENTRE? OR CENTRAL? ?
S5   2664190   S GEOCOD? OR GEO()COD? OR DEMOGRAPH? OR CHARACTERI?ATION? ? OR DATA
S6   71307   S (VIRTUAL OR AUTOMAT?? OR COMPUTERI?ED OR INTELLIGENT)(2N)(ADDRESS? OR PLACE? ?
OR OBJECT? ? OR DATA OR INFORMATION OR COMPONENT? ? OR POSITION? ? OR LOCATION? ? OR
NUMBER? ? OR ZIP()CODE OR HOUS? OR HOME? OR STREET? ?)
S7   13420   S (PLURALITY OR GROUP??? OR MULTIPLE? OR SEVERAL OR TWO OR 2 OR PLURAL OR
ANOTHER OR OTHER? ?)(2N)(RADIAL? ? OR RADII OR SPOKE? ? OR RAYS OR RAY OR GRID? ?)
S8   308731   S (USER? ? OR CLIENT? ? OR PATRON? ? OR CONSUMER? ? OR CUSTOMER? ?)(3N)(INPUT? OR
(IN()PUT OR PUTS OR PUTTING) OR INFORMATION OR PROMPT? OR PROVOKE? OR EVOKE? OR CUE OR
TRANSMI?)
S9   84061   S (OUTPUT? ? OR OUT()PUT? ? OR TRANSFER? ? OR TRANSMISSION? ? OR TRANSFER? OR
CONVEY OR SHIFT? OR TRANSMIT? OR TRANSPORT? OR TRANSPOS? OR GENERAT? OR PRODUC? OR
DEFIN? OR DEVELOP? OR DISPLAY? ?)(3N)(MARKER? ? OR GRID? ? OR MARK? ? OR TAG OR TAGGING OR
RADIAL? ? OR GUIDE? ? OR MAP OR MAPS OR MAPPING OR MAPPINGS)
S10   699933   S S4 AND S5
S11   628   S S2(10N)S10
S12   90   S S11(S)S3
S13   1   S S12(S)S6
S14   0   S S13 NOT PY>1999
S15   12019   S S1(S)S3
S16   957   S S15(S)S4
S17   459   S S16(S)S5
S18   20   S S17(S)S6
S19   0   S S18(S)S7
S20   7657   S S8 AND S9
S21   1   S S20(S)S18
S22   0   S S21 NOT PY>1999
S23   0   S ((GEOCOD? OR GEO()CODE)(S)(CENTROID? OR METACENTER? ? OR METACENTRE? OR
META()(CENTER? OR CENTRE?) OR BARYCENTER))(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR
PLACE? ? OR OBJECT? ? OR DATA OR INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))(S)((MAP OR
MAPS OR MAPP? OR CARTOGRAPH? OR GEOGRAPH? OR STREET()LEVEL()DATA OR MAPQUEST OR
MAP()QUEST OR STREETMAP? OR GUIDE OR ADDRESS? ? OR PLOT? ? OR PLAT? ?)(5N)(CHART? ? OR GRID? ?
OR MARKER? ? OR MARK? ? OR GUIDE? ?)(2N)(DATABASE? ? OR (DATA OR INFORMATION OR
KNOWLEDGE)()BASE? ?))
S24   1   S (CENTROID? OR METACENTER? ? OR METACENTRE? OR META()(CENTER? OR CENTRE?) OR
BARYCENTER)(S)((VIRTUAL OR COMPUTERI?ED)(2N)(ADDRESS? OR PLACE? ? OR OBJECT? ? OR DATA OR
INFORMATION OR LOCATION? ? OR ZIP()CODE OR HOUS?))
S25   1   S S24 NOT PY>1999
; show files
[File 610] **Business Wire** 1999-2007/Jun 14

25/3,K/1 (Item 1 from file: 275) **Links**
Gale Group Computer DB(TM)
01619788   **Supplier Number: 14359850 (Use Format 7 Or 9 For** FULL TEXT)
Fuzzy logic engine for Turbo Pascal. (includes related article on syntax) (Technical)

Lindh, Lars
AI Expert , v8 , n10 , p36(6)
Oct , 1993
Document Type: Technical
ISSN: 0888-3785
Language: ENGLISH   **Record Type:** FULLTEXT; ABSTRACT
Word Count: 2492   **Line Count:** 00216


```
...should be used only when they can't be determined by symmetry.
        function eval: real; virtual;
        defuzzificates the object by returning the centroid.
        From the basic TFuzzy is TTrapezoid derived. By adjusting the
parameter's trapezoid, triangular or...
```